

DEPARTMENT OF THE NAVY  
FISCAL YEAR (FY) 2018  
EMERGENCY AND OVERSEAS CONTINGENCY  
OPERATIONS (OCO) AMENDMENTS



JUSTIFICATION OF ESTIMATES  
NOVEMBER 2017

Consolidated Book for  
Military Personnel, Marine Corps (MPMC)  
Operation and Maintenance, Navy (OMN)  
Operation and Maintenance, Marine Corps (OMMC)  
Other Procurement, Navy (OPN)  
Procurement of Ammunition, Navy & Marine Corps (PANMC)  
Research, Development, Test & Evaluation, Navy (RD TEN)

The estimated cost for this report for the Department of the Navy (DON) is \$14,600.

The estimated total cost for supporting the DON budget justification material is approximately \$1,142,960 for the 2017 fiscal year. This includes \$76,659 in supplies and \$1,066,301 in labor.

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## *OCO Amendment to the FY 2018 President's Budget Request*

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DEPARTMENT OF THE NAVY  
FISCAL YEAR (FY) 2018  
EMERGENCY AMENDMENT



JUSTIFICATION OF ESTIMATES  
NOVEMBER 2017

Operation and Maintenance, Navy (OMN)

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## UNCLASSIFIED

Department of Defense  
 FY 2018 President's Budget Amendment  
 Exhibit O-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation Summary -----	FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----
Department of the Navy				
Operation & Maintenance, Navy	46,911,652	38,317,927	9,677,448	47,995,375
Total Department of the Navy	46,911,652	38,317,927	9,677,448	47,995,375
 Total Operation and Maintenance Title	 46,911,652	 38,317,927	 9,677,448	 47,995,375

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 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation Summary	FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total
-----	-----	-----	-----	-----	-----	-----	-----
Department of the Navy							
Operation & Maintenance, Navy	45,439,407		673,500	5,875,015	76,274	5,951,289	52,064,196
Total Department of the Navy	45,439,407		673,500	5,875,015	76,274	5,951,289	52,064,196
 Total Operation and Maintenance Title	 45,439,407		 673,500	 5,875,015	 76,274	 5,951,289	 52,064,196



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	FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----	S e c -
1804N Operation & Maintenance, Navy					
TOTAL, BA 01: Operating Forces	38,751,467	30,096,836	9,413,948	39,510,784	
TOTAL, BA 02: Mobilization	866,458	1,527,855	21,840	1,549,695	
TOTAL, BA 03: Training and Recruiting	1,867,423	1,875,165	43,351	1,918,516	
TOTAL, BA 04: Admin & Srvwd Activities	5,426,304	4,818,071	198,309	5,016,380	
Total Operation & Maintenance, Navy	46,911,652	38,317,927	9,677,448	47,995,375	

## Details:

## Budget Activity 01: Operating Forces

## Air Operations

1804N 010 1A1A Mission and Other Flight Operations	4,999,243	3,591,929	1,558,674	5,150,603	U
1804N 020 1A2A Fleet Air Training	1,614,527	1,772,526	61,971	1,834,497	U
1804N 030 1A3A Aviation Technical Data & Engineering Services	38,048	52,670		52,670	U
1804N 040 1A4A Air Operations and Safety Support	107,434	97,584	4,603	102,187	U
1804N 050 1A4N Air Systems Support	488,148	449,233	205,747	654,980	U
1804N 060 1A5A Aircraft Depot Maintenance	984,454	990,171	148,522	1,138,693	U
1804N 070 1A6A Aircraft Depot Operations Support	38,918	38,184	3,540	41,724	U
1804N 080 1A9A Aviation Logistics	540,949	582,220	79,029	661,249	U
Total Air Operations	8,811,721	7,574,517	2,062,086	9,636,603	

## Ship Operations

1804N 090 1B1B Mission and Other Ship Operations	4,990,407	3,026,935	1,752,335	4,779,270	U
1804N 100 1B2B Ship Operations Support & Training	801,735	748,558	17,306	765,864	U
1804N 110 1B4B Ship Depot Maintenance	8,076,322	4,891,709	3,876,440	8,768,149	U
1804N 120 1B5B Ship Depot Operations Support	1,722,437	1,658,541	2,713	1,661,254	U
Total Ship Operations	15,590,901	10,325,743	5,648,794	15,974,537	

## Combat Operations/Support

1804N 130 1C1C Combat Communications and Electronic Warfare	758,178	583,572	25,326	608,898	U
1804N 140 1C2C Electronic Warfare	97,642	105,680		105,680	U
1804N 150 1C3C Space Systems and Surveillance	247,760	180,405	4,700	185,105	U
1804N 160 1C4C Warfare Tactics	499,725	499,795	52,703	552,498	U
1804N 170 1C5C Operational Meteorology and Oceanography	391,873	351,677	32,934	384,611	U
1804N 180 1C6C Combat Support Forces	1,723,298	1,152,686	679,945	1,832,631	U
1804N 190 1C7C Equipment Maintenance and Depot Operations Support	133,004	113,688	23,158	136,846	U
1804N 200 1C8C Depot Operations Support	2,443	2,509		2,509	U
1804N 210 1CCH Combatant Commanders Core Operations	94,989	91,013		91,013	U

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 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

	FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total	S e c
	-----	-----	-----	-----	-----	-----	-----	-
1804N Operation & Maintenance, Navy								
TOTAL, BA 01: Operating Forces	38,787,013		673,500	5,553,751	76,274	5,630,025	45,090,538	
TOTAL, BA 02: Mobilization	704,510			175,659		175,659	880,169	
TOTAL, BA 03: Training and Recruiting	1,931,508			43,369		43,369	1,974,877	
TOTAL, BA 04: Admin & Srvwd Activities	4,016,376			102,236		102,236	4,118,612	
Total Operation & Maintenance, Navy	45,439,407		673,500	5,875,015	76,274	5,951,289	52,064,196	
Details:								
Budget Activity 01: Operating Forces								
Air Operations								
1804N 010 1A1A Mission and Other Flight Operations	5,544,165			412,710		412,710	5,956,875	U
1804N 020 1A2A Fleet Air Training	2,075,000				5,674	5,674	2,080,674	U
1804N 030 1A3A Aviation Technical Data & Engineering Services	46,801			1,750		1,750	48,551	U
1804N 040 1A4A Air Operations and Safety Support	119,624			2,989		2,989	122,613	U
1804N 050 1A4N Air Systems Support	552,536			144,030		144,030	696,566	U
1804N 060 1A5A Aircraft Depot Maintenance	1,088,482			211,196		211,196	1,299,678	U
1804N 070 1A6A Aircraft Depot Operations Support	40,584			1,921		1,921	42,505	U
1804N 080 1A9A Aviation Logistics	723,786			102,834		102,834	826,620	U
Total Air Operations	10,190,978			877,430	5,674	883,104	11,074,082	
Ship Operations								
1804N 090 1B1B Mission and Other Ship Operations	4,067,334			855,453	16,000	871,453	4,938,787	U
1804N 100 1B2B Ship Operations Support & Training	977,701			19,627		19,627	997,328	U
1804N 110 1B4B Ship Depot Maintenance	7,165,858		673,500	2,483,179		2,483,179	10,322,537	U
1804N 120 1B5B Ship Depot Operations Support	2,193,851						2,193,851	U
Total Ship Operations	14,404,744		673,500	3,358,259	16,000	3,374,259	18,452,503	
Combat Operations/Support								
1804N 130 1C1C Combat Communications and Electronic Warfare	1,288,094			58,886		58,886	1,346,980	U
1804N 140 1C2C Electronic Warfare								U
1804N 150 1C3C Space Systems and Surveillance	206,678			4,400		4,400	211,078	U
1804N 160 1C4C Warfare Tactics	621,581			21,550		21,550	643,131	U
1804N 170 1C5C Operational Meteorology and Oceanography	370,681			21,104		21,104	391,785	U
1804N 180 1C6C Combat Support Forces	1,437,966			605,936	6,000	611,936	2,049,902	U
1804N 190 1C7C Equipment Maintenance and Depot Operations Support	162,705			11,433		11,433	174,138	U
1804N 200 1C8C Depot Operations Support								U
1804N 210 1CCH Combatant Commanders Core Operations	65,108						65,108	U

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		FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----	S e c
1804N	Operation & Maintenance, Navy					
1804N	220 1CCM Combatant Commanders Direct Mission Support	96,560	74,780		74,780	U
1804N	230 1CCS Military Information Support Operations					U
1804N	240 1CCY Cyberspace Activities					U
	Total Combat Operations/Support	4,045,472	3,155,805	818,766	3,974,571	
	Weapons Support					
1804N	250 1D1D Cruise Missile	110,136	106,030	7,500	113,530	U
1804N	260 1D2D Fleet Ballistic Missile	1,204,253	1,239,643		1,239,643	U
1804N	270 1D3D In-Service Weapons Systems Support	206,640	163,025	63,800	226,825	U
1804N	280 1D4D Weapons Maintenance	846,163	553,269	379,545	932,814	U
1804N	290 1D7D Other Weapon Systems Support	364,260	349,842	8,000	357,842	U
	Total Weapons Support	2,731,452	2,411,809	458,845	2,870,654	
	Base Support					
1804N	300 BSIT Enterprise Information	797,137	790,651		790,651	U
1804N	310 BSM1 Sustainment, Restoration and Modernization	2,273,709	1,666,427	173,375	1,839,802	U
1804N	320 BSS1 Base Operating Support	4,501,075	4,171,884	252,082	4,423,966	U
	Total Base Support	7,571,921	6,628,962	425,457	7,054,419	
	Total, BA 01: Operating Forces	38,751,467	30,096,836	9,413,948	39,510,784	
	Budget Activity 02: Mobilization					
	Ready Reserve and Prepositioning Force					
1804N	330 2A1F Ship Prepositioning and Surge	418,454	893,507	10,000	903,507	U
1804N	340 2A2F Ready Reserve Force		274,524		274,524	U
	Total Ready Reserve and Prepositioning Force	418,454	1,168,031	10,000	1,178,031	
	Activations/Inactivations					
1804N	350 2B1G Aircraft Activations/Inactivations	6,217	6,727	1,530	8,257	U
1804N	360 2B2G Ship Activations/Inactivations	345,910	234,154		234,154	U
	Total Activations/Inactivations	352,127	240,881	1,530	242,411	
	Mobilization Preparation					
1804N	370 2C1H Expeditionary Health Services Systems	71,834	95,720	10,310	106,030	U
1804N	380 2C2H Industrial Readiness	2,236	2,109		2,109	U
1804N	390 2C3H Coast Guard Support	21,807	21,114		21,114	U
	Total Mobilization Preparation	95,877	118,943	10,310	129,253	
	Total, BA 02: Mobilization	866,458	1,527,855	21,840	1,549,695	

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Total Obligational Authority  
(Dollars in Thousands)

02 Nov 2017

		FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total	S e c
		-----	-----	-----	-----	-----	-----	-----	-
1804N	Operation & Maintenance, Navy								
1804N	220 1CCM Combatant Commanders Direct Mission Support	86,892						86,892	U
1804N	230 1CCS Military Information Support Operations	8,427						8,427	U
1804N	240 1CCY Cyberspace Activities	385,212						385,212	U
	Total Combat Operations/Support	4,633,344			723,309	6,000	729,309	5,362,653	
	Weapons Support								
1804N	250 1D1D Cruise Missile								U
1804N	260 1D2D Fleet Ballistic Missile	1,278,456						1,278,456	U
1804N	270 1D3D In-Service Weapons Systems Support								U
1804N	280 1D4D Weapons Maintenance	745,680			325,011	46,600	371,611	1,117,291	U
1804N	290 1D7D Other Weapon Systems Support	380,016			9,598		9,598	389,614	U
	Total Weapons Support	2,404,152			334,609	46,600	381,209	2,785,361	
	Base Support								
1804N	300 BSIT Enterprise Information	914,428						914,428	U
1804N	310 BSM1 Sustainment, Restoration and Modernization	1,905,679			31,898		31,898	1,937,577	U
1804N	320 BSS1 Base Operating Support	4,333,688			228,246	2,000	230,246	4,563,934	U
	Total Base Support	7,153,795			260,144	2,000	262,144	7,415,939	
	Total, BA 01: Operating Forces	38,787,013		673,500	5,553,751	76,274	5,630,025	45,090,538	
	Budget Activity 02: Mobilization								
	Ready Reserve and Prepositioning Force								
1804N	330 2A1F Ship Prepositioning and Surge	417,450						417,450	U
1804N	340 2A2F Ready Reserve Force								U
	Total Ready Reserve and Prepositioning Force	417,450						417,450	
	Activations/Inactivations								
1804N	350 2B1G Aircraft Activations/Inactivations								U
1804N	360 2B2G Ship Activations/Inactivations	198,341			1,869		1,869	200,210	U
	Total Activations/Inactivations	198,341			1,869		1,869	200,210	
	Mobilization Preparation								
1804N	370 2C1H Expeditionary Health Services Systems	66,849			11,905		11,905	78,754	U
1804N	380 2C2H Industrial Readiness								U
1804N	390 2C3H Coast Guard Support	21,870			161,885		161,885	183,755	U
	Total Mobilization Preparation	88,719			173,790		173,790	262,509	
	Total, BA 02: Mobilization	704,510			175,659		175,659	880,169	

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 (Dollars in Thousands)

02 Nov 2017

	FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----	S e c
1804N Operation & Maintenance, Navy					
Budget Activity 03: Training and Recruiting					
Accession Training					
1804N 400 3A1J Officer Acquisition	153,921	143,794		143,794	U
1804N 410 3A2J Recruit Training	11,062	8,519		8,519	U
1804N 420 3A3J Reserve Officers Training Corps	141,057	143,445		143,445	U
Total Accession Training	306,040	295,758		295,758	
Basic Skill and Advanced Training					
1804N 430 3B1K Specialized Skill Training	681,322	699,150	43,351	742,501	U
1804N 440 3B2K Flight Training	7,878	5,310		5,310	U
1804N 450 3B3K Professional Development Education	169,475	172,851		172,851	U
1804N 460 3B4K Training Support	216,863	222,728		222,728	U
Total Basic Skill and Advanced Training	1,075,538	1,100,039	43,351	1,143,390	
Recruiting and Other Training & Education					
1804N 470 3C1L Recruiting and Advertising	234,387	224,669		224,669	U
1804N 480 3C3L Off-Duty and Voluntary Education	135,124	130,569		130,569	U
1804N 490 3C4L Civilian Education and Training	63,160	73,730		73,730	U
1804N 500 3C5L Junior ROTC	53,174	50,400		50,400	U
Total Recruiting and Other Training & Education	485,845	479,368		479,368	
Total, BA 03: Training and Recruiting	1,867,423	1,875,165	43,351	1,918,516	
Budget Activity 04: Admin & Srvwd Activities					
Servicewide Support					
1804N 510 4A1M Administration	996,124	893,429	3,764	897,193	U
1804N 520 4A2M External Relations	11,487	14,570	515	15,085	U
1804N 530 4A3M Civilian Manpower and Personnel Management	129,185	124,070		124,070	U
1804N 540 4A4M Military Manpower and Personnel Management	349,544	365,767	5,409	371,176	U
1804N 550 4A5M Other Personnel Support	255,111	285,927	1,578	287,505	U
1804N 560 4A6M Servicewide Communications	365,076	319,908	25,617	345,525	U
1804N 570 4A6S Spectrum Relocation Pre-Auction	88				U
1804N 580 4A8M Medical Activities	24,768				U
Total Servicewide Support	2,131,383	2,003,671	36,883	2,040,554	
Logistics Operations and Technical Support					
1804N 590 4B1N Servicewide Transportation	248,395	171,659	126,700	298,359	U
1804N 600 4B2E Environmental Programs	299,733				U

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	FY 2018 Base Request -----	FY 2018 June Amendment Base -----	FY 2018 Amendment Emergency -----	FY 2018 OCO Request -----	FY 2018 Amendment OCO -----	FY 2018 Total OCO -----	FY 2018 Grand Total -----	S e c
1804N Operation & Maintenance, Navy								
Budget Activity 03: Training and Recruiting								
Accession Training								
1804N 400 3A1J Officer Acquisition	143,924						143,924	U
1804N 410 3A2J Recruit Training	8,975						8,975	U
1804N 420 3A3J Reserve Officers Training Corps	144,708						144,708	U
Total Accession Training	297,607						297,607	
Basic Skill and Advanced Training								
1804N 430 3B1K Specialized Skill Training	812,708			43,369		43,369	856,077	U
1804N 440 3B2K Flight Training								U
1804N 450 3B3K Professional Development Education	180,448						180,448	U
1804N 460 3B4K Training Support	234,596						234,596	U
Total Basic Skill and Advanced Training	1,227,752			43,369		43,369	1,271,121	
Recruiting and Other Training & Education								
1804N 470 3C1L Recruiting and Advertising	177,517						177,517	U
1804N 480 3C3L Off-Duty and Voluntary Education	103,154						103,154	U
1804N 490 3C4L Civilian Education and Training	72,216						72,216	U
1804N 500 3C5L Junior ROTC	53,262						53,262	U
Total Recruiting and Other Training & Education	406,149						406,149	
Total, BA 03: Training and Recruiting	1,931,508			43,369		43,369	1,974,877	
Budget Activity 04: Admin & Srvwd Activities								
Servicewide Support								
1804N 510 4A1M Administration	1,135,429			3,217		3,217	1,138,646	U
1804N 520 4A2M External Relations								U
1804N 530 4A3M Civilian Manpower and Personnel Management	149,365						149,365	U
1804N 540 4A4M Military Manpower and Personnel Management	386,749			7,356		7,356	394,105	U
1804N 550 4A5M Other Personnel Support								U
1804N 560 4A6M Servicewide Communications								U
1804N 570 4A6S Spectrum Relocation Pre-Auction								U
1804N 580 4A8M Medical Activities								U
Total Servicewide Support	1,671,543			10,573		10,573	1,682,116	
Logistics Operations and Technical Support								
1804N 590 4B1N Servicewide Transportation	165,301			67,938		67,938	233,239	U
1804N 600 4B2E Environmental Programs								U

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1804N	Operation & Maintenance, Navy					
1804N	610 4B2N Planning, Engineering, and Program Support	281,663	270,863		270,863	U
1804N	620 4B3N Acquisition, Logistics, and Oversight	1,121,801	1,112,763	9,261	1,122,024	U
1804N	630 4B5N Hull, Mechanical and Electrical Support	48,855	49,078		49,078	U
1804N	640 4B6N Combat/Weapons Systems	25,563	24,989		24,989	U
1804N	650 4B7N Space and Electronic Warfare Systems	71,547	72,966		72,966	U
	Total Logistics Operations and Technical Support	2,097,557	1,702,318	135,961	1,838,279	
	Investigations and Security Programs					
1804N	660 4C1P Investigative and Security Services	649,759	595,433	1,501	596,934	U
	Total Investigations and Security Programs	649,759	595,433	1,501	596,934	
	Support of Other Nations					
1804N	720 4D1Q International Headquarters and Agencies	4,871	4,809		4,809	U
	Total Support of Other Nations	4,871	4,809		4,809	
	Spectrum/Telecommunications					
1804N	730 4S09 HQ Transition Process Management	154				U
1804N	740 4S56 DON Robotics Transition Support	2,669				U
1804N	750 4S59 DON HQ Transition Process Management	4,258				U
	Total Spectrum/Telecommunications	7,081				
	Cancelled Accounts					
1804N	760 4EMM Cancelled Account Adjustments	7,056				U
1804N	770 4EPJ Judgement Fund	493				U
	Total Cancelled Accounts	7,549				
1804N	999 Classified Programs	528,104	511,840	23,964	535,804	U
	Total, BA 04: Admin & Srvwd Activities	5,426,304	4,818,071	198,309	5,016,380	
	Total Operation & Maintenance, Navy	46,911,652	38,317,927	9,677,448	47,995,375	

O-118AMD: FY 2018 President's Budget Amendment (Published Version), as of November 2, 2017 at 16:14:29

## UNCLASSIFIED

Department of Defense  
 FY 2018 President's Budget Amendment  
 Exhibit O-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

		FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total	S e c
		-----	-----	-----	-----	-----	-----	-----	-
1804N	Operation & Maintenance, Navy								
1804N	610 4B2N Planning, Engineering, and Program Support	311,616						311,616	U
1804N	620 4B3N Acquisition, Logistics, and Oversight	665,580			9,446		9,446	675,026	U
1804N	630 4B5N Hull, Mechanical and Electrical Support								U
1804N	640 4B6N Combat/Weapons Systems								U
1804N	650 4B7N Space and Electronic Warfare Systems								U
	Total Logistics Operations and Technical Support	1,142,497			77,384		77,384	1,219,881	
	Investigations and Security Programs								
1804N	660 4C1P Investigative and Security Services	659,143			1,528		1,528	660,671	U
	Total Investigations and Security Programs	659,143			1,528		1,528	660,671	
	Support of Other Nations								
1804N	720 4D1Q International Headquarters and Agencies								U
	Total Support of Other Nations								
	Spectrum/Telecommunications								
1804N	730 4S09 HQ Transition Process Management								U
1804N	740 4S56 DON Robotics Transition Support								U
1804N	750 4S59 DON HQ Transition Process Management								U
	Total Spectrum/Telecommunications								
	Cancelled Accounts								
1804N	760 4EMM Cancelled Account Adjustments								U
1804N	770 4EPJ Judgement Fund								U
	Total Cancelled Accounts								
1804N	999 Classified Programs	543,193			12,751		12,751	555,944	U
	Total, BA 04: Admin & Srvwd Activities	4,016,376			102,236		102,236	4,118,612	
	Total Operation & Maintenance, Navy	45,439,407		673,500	5,875,015	76,274	5,951,289	52,064,196	

O-118AMD: FY 2018 President's Budget Amendment (Published Version), as of November 2, 2017 at 16:14:29



Department of the Navy  
FY 2018 Emergency Amendment  
Operation and Maintenance, Navy  
Budget Activity: Operating Forces  
Activity Group: Ship Operations  
Detail by Subactivity Group: Ship Maintenance

	<u>(\$ in Thousands)</u>	
<b><u>C. Reconciliation of Increases and Decreases</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
<b>FY 2018 President's Budget Request</b>		<b>7,165,858</b>
<b>FY 2018 Emergency Amendment</b>		<b>673,500</b>
<b>1) Increases</b>		<b>673,500</b>
a) Amended Budget Submission Increases		673,500
i) Increase in private sector maintenance for USS FITZGERALD due to repairs from a naval accident and Extended Docking Selected Restricted Availability.	423,500	
OP-32 Lines Affected		
928 – Increase \$423,500		
ii) Increase in private sector maintenance for USS JOHN S. MCCAIN due to repairs from a naval accident and Extended Docking Selected Restricted Availability.	250,000	
OP-32 Lines Affected		
901 – Increase \$1,680		
920 – Increase \$3,750		
928 – Increase \$244,570		
<b>FY 2018 Budget Request</b>		<b>7,839,358</b>

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DEPARTMENT OF THE NAVY  
FISCAL YEAR (FY) 2018  
OCO AMENDMENT



JUSTIFICATION OF ESTIMATES  
NOVEMBER 2017

Consolidated Book for  
Military Personnel, Marine Corps (MPMC)  
Operation and Maintenance, Navy (OMN)  
Operation and Maintenance, Marine Corps (OMMC)  
Other Procurement, Navy (OPN)  
Procurement of Ammunition, Navy & Marine Corps (PANMC)  
Research, Development, Test & Evaluation, Navy (RD TEN)

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DEPARTMENT OF THE NAVY  
FISCAL YEAR (FY) 2018  
OCO AMENDMENT



JUSTIFICATION OF ESTIMATES  
NOVEMBER 2017

Military Personnel, Marine Corps (MPMC)

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## UNCLASSIFIED

Department of Defense  
 FY 2018 President's Budget Amendment  
 Exhibit M-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

03 Nov 2017

Military Personnel, Marine Corps	FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----	S e c
Budget Activity 01: Pay and Allowances of Officers					
1105N 5 Basic Pay	1,536,942	1,530,613	32,195	1,562,808	U
1105N 10 Retired Pay Accrual	479,395	441,054	7,598	448,652	U
1105N 11 Thrift Savings Plan Matching Contributions					U
1105N 25 Basic Allowance for Housing	498,448	507,881	9,505	517,386	U
1105N 30 Basic Allowance for Subsistence	62,122	65,830	1,074	66,904	U
1105N 35 Incentive Pays	30,402	31,661	266	31,927	U
1105N 40 Special Pays	5,814	3,582	1,588	5,170	U
1105N 45 Allowances	44,816	34,865	2,122	36,987	U
1105N 50 Separation Pay	26,865	13,077	5,939	19,016	U
1105N 55 Social Security Tax	116,911	116,749	2,463	119,212	U
Total Budget Activity 01	2,801,715	2,745,312	62,750	2,808,062	
Budget Activity 02: Pay And Allowances Of Enlisted Personnel					
1105N 60 Basic Pay	4,804,763	4,844,267	18,075	4,862,342	U
1105N 65 Retired Pay Accrual	1,505,447	1,409,992	4,266	1,414,258	U
1105N 66 Thrift Savings Plan Matching Contributions					U
1105N 80 Basic Allowance for Housing	1,500,754	1,533,921	9,082	1,543,003	U
1105N 85 Incentive Pays	8,680	9,137	16	9,153	U
1105N 90 Special Pays	132,753	116,757	4,723	121,480	U
1105N 95 Allowances	307,164	280,302	6,222	286,524	U
1105N 100 Separation Pay	121,173	91,926	74,707	166,633	U
1105N 105 Social Security Tax	364,528	370,219	1,382	371,601	U
Total Budget Activity 02	8,745,262	8,656,521	118,473	8,774,994	
Budget Activity 04: Subsistence of Enlisted Personnel					
1105N 115 Basic Allowance for Subsistence	421,913	420,724	2,171	422,895	U
1105N 120 Subsistence-In-Kind	373,452	374,576		374,576	U
1105N 121 Family Subsistence Supplemental Allowance	12	10		10	U
Total Budget Activity 04	795,377	795,310	2,171	797,481	

## UNCLASSIFIED

Department of Defense  
 FY 2018 President's Budget Amendment  
 Exhibit M-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

03 Nov 2017

Military Personnel, Marine Corps	FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total	S e c
	-----	-----	-----	-----	-----	-----	-----	-
Budget Activity 01: Pay and Allowances of Officers								
1105N 5 Basic Pay	1,581,886			19,766		19,766	1,601,652	U
1105N 10 Retired Pay Accrual	450,292			4,479		4,479	454,771	U
1105N 11 Thrift Savings Plan Matching Contributions	17,859						17,859	U
1105N 25 Basic Allowance for Housing	535,011			6,679		6,679	541,690	U
1105N 30 Basic Allowance for Subsistence	66,887			634		634	67,521	U
1105N 35 Incentive Pays	36,374			160		160	36,534	U
1105N 40 Special Pays	3,333			2,460	26	2,486	5,819	U
1105N 45 Allowances	43,841			890	30	920	44,761	U
1105N 50 Separation Pay	13,257						13,257	U
1105N 55 Social Security Tax	120,531			1,512		1,512	122,043	U
Total Budget Activity 01	2,869,271			36,580	56	36,636	2,905,907	
Budget Activity 02: Pay And Allowances Of Enlisted Personnel								
1105N 60 Basic Pay	4,980,929			24,617		24,617	5,005,546	U
1105N 65 Retired Pay Accrual	1,416,193			5,551		5,551	1,421,744	U
1105N 66 Thrift Savings Plan Matching Contributions	55,287						55,287	U
1105N 80 Basic Allowance for Housing	1,620,934			15,229		15,229	1,636,163	U
1105N 85 Incentive Pays	9,137			23		23	9,160	U
1105N 90 Special Pays	144,597			8,021	63	8,084	152,681	U
1105N 95 Allowances	319,915			6,875	60	6,935	326,850	U
1105N 100 Separation Pay	90,030						90,030	U
1105N 105 Social Security Tax	380,478			1,883		1,883	382,361	U
Total Budget Activity 02	9,017,500			62,199	123	62,322	9,079,822	
Budget Activity 04: Subsistence of Enlisted Personnel								
1105N 115 Basic Allowance for Subsistence	450,121			2,842		2,842	452,963	U
1105N 120 Subsistence-In-Kind	415,759						415,759	U
1105N 121 Family Subsistence Supplemental Allowance	10						10	U
Total Budget Activity 04	865,890			2,842		2,842	868,732	

M-118AMD: FY 2018 President's Budget Amendment (Published Version), as of November 3, 2017 at 09:47:33



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Department of Defense  
 FY 2018 President's Budget Amendment  
 Exhibit M-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

03 Nov 2017

Military Personnel, Marine Corps	FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----	S e c
Budget Activity 05: Permanent Change of Station Travel					
1105N 125 Accession Travel	51,385	64,291		64,291	U
1105N 130 Training Travel	18,336	7,185		7,185	U
1105N 135 Operational Travel	176,762	130,620		130,620	U
1105N 140 Rotational Travel	131,842	107,630		107,630	U
1105N 145 Separation Travel	76,077	129,224		129,224	U
1105N 150 Travel of Organized Units	1,930	380		380	U
1105N 155 Non-Temporary Storage		7,942		7,942	U
1105N 160 Temporary Lodging Expense		5,473		5,473	U
Total Budget Activity 05	456,332	452,745		452,745	
Budget Activity 06: Other Military Personnel Costs					
1105N 170 Apprehension of Military Deserters	286	395		395	U
1105N 175 Interest on Uniformed Services Savings	235	19	302	321	U
1105N 180 Death Gratuities	10,800	12,900		12,900	U
1105N 185 Unemployment Benefits	60,691	55,928		55,928	U
1105N 195 Education Benefits	9,655	7,125		7,125	U
1105N 200 Adoption Expenses	84	116		116	U
1105N 205 Special Compensation for Severely Disabled Retirees					U
1105N 210 Transportation Subsidy	1,381	2,122		2,122	U
1105N 215 Partial Dislocation Allowance	100	101		101	U
1105N 216 SGLI Extra Hazard Payments	814		1,877	1,877	U
1105N 218 Junior ROTC	4,024	3,589		3,589	U
Total Budget Activity 06	88,070	82,295	2,179	84,474	
Total Military Personnel, Marine Corps	12,886,756	12,732,183	185,573	12,917,756	
Less Reimbursables	25,789				
Total Direct - Military Personnel, Marine Corps	12,860,967	12,732,183	185,573	12,917,756	
Total Active Marine Corps Military Personnel Costs	12,860,967	12,732,183	185,573	12,917,756	
Total Direct - Marine Corps Military Appropriations	12,860,967	12,732,183	185,573	12,917,756	
Grand Total Direct - Marine Corps Military Personnel Co	12,860,967	12,732,183	185,573	12,917,756	

M-118AMD: FY 2018 President's Budget Amendment (Published Version), as of November 3, 2017 at 09:47:33

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Department of Defense  
 FY 2018 President's Budget Amendment  
 Exhibit M-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

03 Nov 2017

	FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total	S e c
	-----	-----	-----	-----	-----	-----	-----	-
Military Personnel, Marine Corps								
Budget Activity 05: Permanent Change of Station Travel								
1105N 125 Accession Travel	55,098						55,098	U
1105N 130 Training Travel	18,718						18,718	U
1105N 135 Operational Travel	184,003						184,003	U
1105N 140 Rotational Travel	120,351						120,351	U
1105N 145 Separation Travel	93,216						93,216	U
1105N 150 Travel of Organized Units	4,671						4,671	U
1105N 155 Non-Temporary Storage								U
1105N 160 Temporary Lodging Expense	5,578						5,578	U
Total Budget Activity 05	481,635						481,635	
Budget Activity 06: Other Military Personnel Costs								
1105N 170 Apprehension of Military Deserters	326						326	U
1105N 175 Interest on Uniformed Services Savings	19			302		302	321	U
1105N 180 Death Gratuities	12,900						12,900	U
1105N 185 Unemployment Benefits	46,624						46,624	U
1105N 195 Education Benefits	8,591						8,591	U
1105N 200 Adoption Expenses	92						92	U
1105N 205 Special Compensation for Severely Disabled Retirees				1,877		1,877	1,877	U
1105N 210 Transportation Subsidy	1,986						1,986	U
1105N 215 Partial Dislocation Allowance	103						103	U
1105N 216 SGLI Extra Hazard Payments								U
1105N 218 Junior ROTC	4,408						4,408	U
Total Budget Activity 06	75,049			2,179		2,179	77,228	
Total Military Personnel, Marine Corps	13,309,345			103,800	179	103,979	13,413,324	
Less Reimbursables	30,631						30,631	
Total Direct - Military Personnel, Marine Corps	13,278,714			103,800	179	103,979	13,382,693	
Total Active Marine Corps Military Personnel Costs	13,278,714			103,800	179	103,979	13,382,693	
Total Direct - Marine Corps Military Appropriations	13,278,714			103,800	179	103,979	13,382,693	
Grand Total Direct - Marine Corps Military Personnel Co	13,278,714			103,800	179	103,979	13,382,693	

M-118AMD: FY 2018 President's Budget Amendment (Published Version), as of November 3, 2017 at 09:47:33

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Department of Defense  
 FY 2018 President's Budget Amendment  
 Exhibit M-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

03 Nov 2017

Military Personnel, Grand Total	FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----	S e c
Budget Activity 01: Pay and Allowances of Officers					
5 Basic Pay	1,536,942	1,530,613	32,195	1,562,808	
10 Retired Pay Accrual	479,395	441,054	7,598	448,652	
11 Thrift Savings Plan Matching Contributions					
25 Basic Allowance for Housing	498,448	507,881	9,505	517,386	
30 Basic Allowance for Subsistence	62,122	65,830	1,074	66,904	
35 Incentive Pays	30,402	31,661	266	31,927	
40 Special Pays	5,814	3,582	1,588	5,170	
45 Allowances	44,816	34,865	2,122	36,987	
50 Separation Pay	26,865	13,077	5,939	19,016	
55 Social Security Tax	116,911	116,749	2,463	119,212	
Total Budget Activity 01	2,801,715	2,745,312	62,750	2,808,062	
Budget Activity 02: Pay And Allowances Of Enlisted Personnel					
60 Basic Pay	4,804,763	4,844,267	18,075	4,862,342	
65 Retired Pay Accrual	1,505,447	1,409,992	4,266	1,414,258	
66 Thrift Savings Plan Matching Contributions					
80 Basic Allowance for Housing	1,500,754	1,533,921	9,082	1,543,003	
85 Incentive Pays	8,680	9,137	16	9,153	
90 Special Pays	132,753	116,757	4,723	121,480	
95 Allowances	307,164	280,302	6,222	286,524	
100 Separation Pay	121,173	91,926	74,707	166,633	
105 Social Security Tax	364,528	370,219	1,382	371,601	
Total Budget Activity 02	8,745,262	8,656,521	118,473	8,774,994	
Budget Activity 04: Subsistence of Enlisted Personnel					
115 Basic Allowance for Subsistence	421,913	420,724	2,171	422,895	
120 Subsistence-In-Kind	373,452	374,576		374,576	
121 Family Subsistence Supplemental Allowance	12	10		10	
Total Budget Activity 04	795,377	795,310	2,171	797,481	

## UNCLASSIFIED

Department of Defense  
 FY 2018 President's Budget Amendment  
 Exhibit M-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

03 Nov 2017

Military Personnel, Grand Total	FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total	S e c
	-----	-----	-----	-----	-----	-----	-----	-
Budget Activity 01: Pay and Allowances of Officers								
5 Basic Pay	1,581,886			19,766		19,766	1,601,652	
10 Retired Pay Accrual	450,292			4,479		4,479	454,771	
11 Thrift Savings Plan Matching Contributions	17,859						17,859	
25 Basic Allowance for Housing	535,011			6,679		6,679	541,690	
30 Basic Allowance for Subsistence	66,887			634		634	67,521	
35 Incentive Pays	36,374			160		160	36,534	
40 Special Pays	3,333			2,460	26	2,486	5,819	
45 Allowances	43,841			890	30	920	44,761	
50 Separation Pay	13,257						13,257	
55 Social Security Tax	120,531			1,512		1,512	122,043	
Total Budget Activity 01	2,869,271			36,580	56	36,636	2,905,907	
Budget Activity 02: Pay And Allowances Of Enlisted Personnel								
60 Basic Pay	4,980,929			24,617		24,617	5,005,546	
65 Retired Pay Accrual	1,416,193			5,551		5,551	1,421,744	
66 Thrift Savings Plan Matching Contributions	55,287						55,287	
80 Basic Allowance for Housing	1,620,934			15,229		15,229	1,636,163	
85 Incentive Pays	9,137			23		23	9,160	
90 Special Pays	144,597			8,021	63	8,084	152,681	
95 Allowances	319,915			6,875	60	6,935	326,850	
100 Separation Pay	90,030						90,030	
105 Social Security Tax	380,478			1,883		1,883	382,361	
Total Budget Activity 02	9,017,500			62,199	123	62,322	9,079,822	
Budget Activity 04: Subsistence of Enlisted Personnel								
115 Basic Allowance for Subsistence	450,121			2,842		2,842	452,963	
120 Subsistence-In-Kind	415,759						415,759	
121 Family Subsistence Supplemental Allowance	10						10	
Total Budget Activity 04	865,890			2,842		2,842	868,732	

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## UNCLASSIFIED

Department of Defense  
 FY 2018 President's Budget Amendment  
 Exhibit M-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

03 Nov 2017

Military Personnel, Grand Total	FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----	S e c -
Budget Activity 05: Permanent Change of Station Travel					
125 Accession Travel	51,385	64,291		64,291	
130 Training Travel	18,336	7,185		7,185	
135 Operational Travel	176,762	130,620		130,620	
140 Rotational Travel	131,842	107,630		107,630	
145 Separation Travel	76,077	129,224		129,224	
150 Travel of Organized Units	1,930	380		380	
155 Non-Temporary Storage		7,942		7,942	
160 Temporary Lodging Expense		5,473		5,473	
Total Budget Activity 05	456,332	452,745		452,745	
Budget Activity 06: Other Military Personnel Costs					
170 Apprehension of Military Deserters	286	395		395	
175 Interest on Uniformed Services Savings	235	19	302	321	
180 Death Gratuities	10,800	12,900		12,900	
185 Unemployment Benefits	60,691	55,928		55,928	
195 Education Benefits	9,655	7,125		7,125	
200 Adoption Expenses	84	116		116	
205 Special Compensation for Severely Disabled Retirees					
210 Transportation Subsidy	1,381	2,122		2,122	
215 Partial Dislocation Allowance	100	101		101	
216 SGLI Extra Hazard Payments	814		1,877	1,877	
218 Junior ROTC	4,024	3,589		3,589	
Total Budget Activity 06	88,070	82,295	2,179	84,474	
Total Military Personnel - Active	12,886,756	12,732,183	185,573	12,917,756	
Less Reimbursables	25,789				
Total Direct - Active	12,860,967	12,732,183	185,573	12,917,756	
Grand Total Direct - Active Personnel Costs	12,860,967	12,732,183	185,573	12,917,756	
Grand Total Direct - Military Personnel	12,860,967	12,732,183	185,573	12,917,756	

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Department of Defense  
FY 2018 President's Budget Amendment  
Exhibit M-1 FY 2018 President's Budget Amendment  
Total Obligational Authority  
(Dollars in Thousands)

03 Nov 2017

	FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total	S e c
	-----	-----	-----	-----	-----	-----	-----	-
Military Personnel, Grand Total								
Budget Activity 05: Permanent Change of Station Travel								
125 Accession Travel	55,098						55,098	
130 Training Travel	18,718						18,718	
135 Operational Travel	184,003						184,003	
140 Rotational Travel	120,351						120,351	
145 Separation Travel	93,216						93,216	
150 Travel of Organized Units	4,671						4,671	
155 Non-Temporary Storage								
160 Temporary Lodging Expense	5,578						5,578	
Total Budget Activity 05	481,635						481,635	
Budget Activity 06: Other Military Personnel Costs								
170 Apprehension of Military Deserters	326						326	
175 Interest on Uniformed Services Savings	19			302		302	321	
180 Death Gratuities	12,900						12,900	
185 Unemployment Benefits	46,624						46,624	
195 Education Benefits	8,591						8,591	
200 Adoption Expenses	92						92	
205 Special Compensation for Severely Disabled Retirees				1,877		1,877	1,877	
210 Transportation Subsidy	1,986						1,986	
215 Partial Dislocation Allowance	103						103	
216 SGLI Extra Hazard Payments								
218 Junior ROTC	4,408						4,408	
Total Budget Activity 06	75,049			2,179		2,179	77,228	
Total Military Personnel - Active	13,309,345			103,800	179	103,979	13,413,324	
Less Reimbursables	30,631						30,631	
Total Direct - Active	13,278,714			103,800	179	103,979	13,382,693	
Grand Total Direct - Active Personnel Costs	13,278,714			103,800	179	103,979	13,382,693	
Grand Total Direct - Military Personnel	13,278,714			103,800	179	103,979	13,382,693	

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DEPARTMENT OF THE NAVY  
FISCAL YEAR (FY) 2018  
OCO AMENDMENT



JUSTIFICATION OF ESTIMATES  
NOVEMBER 2017

Operation and Maintenance, Navy (OMN)

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Department of Defense  
 FY 2018 President's Budget Amendment  
 Exhibit O-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation Summary -----	FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----
Department of the Navy				
Operation & Maintenance, Navy	46,911,652	38,317,927	9,677,448	47,995,375
Total Department of the Navy	46,911,652	38,317,927	9,677,448	47,995,375
 Total Operation and Maintenance Title	 46,911,652	 38,317,927	 9,677,448	 47,995,375

## UNCLASSIFIED

Department of Defense  
 FY 2018 President's Budget Amendment  
 Exhibit O-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation Summary	FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total
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Department of the Navy							
Operation & Maintenance, Navy	45,439,407		673,500	5,875,015	76,274	5,951,289	52,064,196
Total Department of the Navy	45,439,407		673,500	5,875,015	76,274	5,951,289	52,064,196
 Total Operation and Maintenance Title	 45,439,407		 673,500	 5,875,015	 76,274	 5,951,289	 52,064,196

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 (Dollars in Thousands)

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	FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----	S e c
1804N Operation & Maintenance, Navy					
TOTAL, BA 01: Operating Forces	38,751,467	30,096,836	9,413,948	39,510,784	
TOTAL, BA 02: Mobilization	866,458	1,527,855	21,840	1,549,695	
TOTAL, BA 03: Training and Recruiting	1,867,423	1,875,165	43,351	1,918,516	
TOTAL, BA 04: Admin & Srvwd Activities	5,426,304	4,818,071	198,309	5,016,380	
Total Operation & Maintenance, Navy	46,911,652	38,317,927	9,677,448	47,995,375	

## Details:

## Budget Activity 01: Operating Forces

## Air Operations

1804N 010 1A1A Mission and Other Flight Operations	4,999,243	3,591,929	1,558,674	5,150,603	U
1804N 020 1A2A Fleet Air Training	1,614,527	1,772,526	61,971	1,834,497	U
1804N 030 1A3A Aviation Technical Data & Engineering Services	38,048	52,670		52,670	U
1804N 040 1A4A Air Operations and Safety Support	107,434	97,584	4,603	102,187	U
1804N 050 1A4N Air Systems Support	488,148	449,233	205,747	654,980	U
1804N 060 1A5A Aircraft Depot Maintenance	984,454	990,171	148,522	1,138,693	U
1804N 070 1A6A Aircraft Depot Operations Support	38,918	38,184	3,540	41,724	U
1804N 080 1A9A Aviation Logistics	540,949	582,220	79,029	661,249	U
Total Air Operations	8,811,721	7,574,517	2,062,086	9,636,603	

## Ship Operations

1804N 090 1B1B Mission and Other Ship Operations	4,990,407	3,026,935	1,752,335	4,779,270	U
1804N 100 1B2B Ship Operations Support & Training	801,735	748,558	17,306	765,864	U
1804N 110 1B4B Ship Depot Maintenance	8,076,322	4,891,709	3,876,440	8,768,149	U
1804N 120 1B5B Ship Depot Operations Support	1,722,437	1,658,541	2,713	1,661,254	U
Total Ship Operations	15,590,901	10,325,743	5,648,794	15,974,537	

## Combat Operations/Support

1804N 130 1C1C Combat Communications and Electronic Warfare	758,178	583,572	25,326	608,898	U
1804N 140 1C2C Electronic Warfare	97,642	105,680		105,680	U
1804N 150 1C3C Space Systems and Surveillance	247,760	180,405	4,700	185,105	U
1804N 160 1C4C Warfare Tactics	499,725	499,795	52,703	552,498	U
1804N 170 1C5C Operational Meteorology and Oceanography	391,873	351,677	32,934	384,611	U
1804N 180 1C6C Combat Support Forces	1,723,298	1,152,686	679,945	1,832,631	U
1804N 190 1C7C Equipment Maintenance and Depot Operations Support	133,004	113,688	23,158	136,846	U
1804N 200 1C8C Depot Operations Support	2,443	2,509		2,509	U
1804N 210 1CCH Combatant Commanders Core Operations	94,989	91,013		91,013	U

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Total Obligational Authority  
(Dollars in Thousands)

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	FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total	S e c
	-----	-----	-----	-----	-----	-----	-----	-
1804N Operation & Maintenance, Navy								
TOTAL, BA 01: Operating Forces	38,787,013		673,500	5,553,751	76,274	5,630,025	45,090,538	
TOTAL, BA 02: Mobilization	704,510			175,659		175,659	880,169	
TOTAL, BA 03: Training and Recruiting	1,931,508			43,369		43,369	1,974,877	
TOTAL, BA 04: Admin & Srwd Activities	4,016,376			102,236		102,236	4,118,612	
Total Operation & Maintenance, Navy	45,439,407		673,500	5,875,015	76,274	5,951,289	52,064,196	
Details:								
Budget Activity 01: Operating Forces								
Air Operations								
1804N 010 1A1A Mission and Other Flight Operations	5,544,165			412,710		412,710	5,956,875	U
1804N 020 1A2A Fleet Air Training	2,075,000				5,674	5,674	2,080,674	U
1804N 030 1A3A Aviation Technical Data & Engineering Services	46,801			1,750		1,750	48,551	U
1804N 040 1A4A Air Operations and Safety Support	119,624			2,989		2,989	122,613	U
1804N 050 1A4N Air Systems Support	552,536			144,030		144,030	696,566	U
1804N 060 1A5A Aircraft Depot Maintenance	1,088,482			211,196		211,196	1,299,678	U
1804N 070 1A6A Aircraft Depot Operations Support	40,584			1,921		1,921	42,505	U
1804N 080 1A9A Aviation Logistics	723,786			102,834		102,834	826,620	U
Total Air Operations	10,190,978			877,430	5,674	883,104	11,074,082	
Ship Operations								
1804N 090 1B1B Mission and Other Ship Operations	4,067,334			855,453	16,000	871,453	4,938,787	U
1804N 100 1B2B Ship Operations Support & Training	977,701			19,627		19,627	997,328	U
1804N 110 1B4B Ship Depot Maintenance	7,165,858		673,500	2,483,179		2,483,179	10,322,537	U
1804N 120 1B5B Ship Depot Operations Support	2,193,851						2,193,851	U
Total Ship Operations	14,404,744		673,500	3,358,259	16,000	3,374,259	18,452,503	
Combat Operations/Support								
1804N 130 1C1C Combat Communications and Electronic Warfare	1,288,094			58,886		58,886	1,346,980	U
1804N 140 1C2C Electronic Warfare								U
1804N 150 1C3C Space Systems and Surveillance	206,678			4,400		4,400	211,078	U
1804N 160 1C4C Warfare Tactics	621,581			21,550		21,550	643,131	U
1804N 170 1C5C Operational Meteorology and Oceanography	370,681			21,104		21,104	391,785	U
1804N 180 1C6C Combat Support Forces	1,437,966			605,936	6,000	611,936	2,049,902	U
1804N 190 1C7C Equipment Maintenance and Depot Operations Support	162,705			11,433		11,433	174,138	U
1804N 200 1C8C Depot Operations Support								U
1804N 210 1CCH Combatant Commanders Core Operations	65,108						65,108	U

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Total Obligational Authority  
(Dollars in Thousands)

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		FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----	S e c -
1804N	Operation & Maintenance, Navy					
1804N	220 1CCM Combatant Commanders Direct Mission Support	96,560	74,780		74,780	U
1804N	230 1CCS Military Information Support Operations					U
1804N	240 1CCY Cyberspace Activities					U
	Total Combat Operations/Support	4,045,472	3,155,805	818,766	3,974,571	
	Weapons Support					
1804N	250 1D1D Cruise Missile	110,136	106,030	7,500	113,530	U
1804N	260 1D2D Fleet Ballistic Missile	1,204,253	1,239,643		1,239,643	U
1804N	270 1D3D In-Service Weapons Systems Support	206,640	163,025	63,800	226,825	U
1804N	280 1D4D Weapons Maintenance	846,163	553,269	379,545	932,814	U
1804N	290 1D7D Other Weapon Systems Support	364,260	349,842	8,000	357,842	U
	Total Weapons Support	2,731,452	2,411,809	458,845	2,870,654	
	Base Support					
1804N	300 BSIT Enterprise Information	797,137	790,651		790,651	U
1804N	310 BSM1 Sustainment, Restoration and Modernization	2,273,709	1,666,427	173,375	1,839,802	U
1804N	320 BSS1 Base Operating Support	4,501,075	4,171,884	252,082	4,423,966	U
	Total Base Support	7,571,921	6,628,962	425,457	7,054,419	
	Total, BA 01: Operating Forces	38,751,467	30,096,836	9,413,948	39,510,784	
	Budget Activity 02: Mobilization					
	Ready Reserve and Prepositioning Force					
1804N	330 2A1F Ship Prepositioning and Surge	418,454	893,507	10,000	903,507	U
1804N	340 2A2F Ready Reserve Force		274,524		274,524	U
	Total Ready Reserve and Prepositioning Force	418,454	1,168,031	10,000	1,178,031	
	Activations/Inactivations					
1804N	350 2B1G Aircraft Activations/Inactivations	6,217	6,727	1,530	8,257	U
1804N	360 2B2G Ship Activations/Inactivations	345,910	234,154		234,154	U
	Total Activations/Inactivations	352,127	240,881	1,530	242,411	
	Mobilization Preparation					
1804N	370 2C1H Expeditionary Health Services Systems	71,834	95,720	10,310	106,030	U
1804N	380 2C2H Industrial Readiness	2,236	2,109		2,109	U
1804N	390 2C3H Coast Guard Support	21,807	21,114		21,114	U
	Total Mobilization Preparation	95,877	118,943	10,310	129,253	
	Total, BA 02: Mobilization	866,458	1,527,855	21,840	1,549,695	

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Department of Defense  
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		FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total	S e c
1804N	Operation & Maintenance, Navy								
1804N	220 1CCM Combatant Commanders Direct Mission Support	86,892						86,892	U
1804N	230 1CCS Military Information Support Operations	8,427						8,427	U
1804N	240 1CCY Cyberspace Activities	385,212						385,212	U
	Total Combat Operations/Support	4,633,344			723,309	6,000	729,309	5,362,653	
	Weapons Support								
1804N	250 1D1D Cruise Missile								U
1804N	260 1D2D Fleet Ballistic Missile	1,278,456						1,278,456	U
1804N	270 1D3D In-Service Weapons Systems Support								U
1804N	280 1D4D Weapons Maintenance	745,680			325,011	46,600	371,611	1,117,291	U
1804N	290 1D7D Other Weapon Systems Support	380,016			9,598		9,598	389,614	U
	Total Weapons Support	2,404,152			334,609	46,600	381,209	2,785,361	
	Base Support								
1804N	300 BSIT Enterprise Information	914,428						914,428	U
1804N	310 BSM1 Sustainment, Restoration and Modernization	1,905,679			31,898		31,898	1,937,577	U
1804N	320 BSS1 Base Operating Support	4,333,688			228,246	2,000	230,246	4,563,934	U
	Total Base Support	7,153,795			260,144	2,000	262,144	7,415,939	
	Total, BA 01: Operating Forces	38,787,013		673,500	5,553,751	76,274	5,630,025	45,090,538	
	Budget Activity 02: Mobilization								
	Ready Reserve and Prepositioning Force								
1804N	330 2A1F Ship Prepositioning and Surge	417,450						417,450	U
1804N	340 2A2F Ready Reserve Force								U
	Total Ready Reserve and Prepositioning Force	417,450						417,450	
	Activations/Inactivations								
1804N	350 2B1G Aircraft Activations/Inactivations								U
1804N	360 2B2G Ship Activations/Inactivations	198,341			1,869		1,869	200,210	U
	Total Activations/Inactivations	198,341			1,869		1,869	200,210	
	Mobilization Preparation								
1804N	370 2C1H Expeditionary Health Services Systems	66,849			11,905		11,905	78,754	U
1804N	380 2C2H Industrial Readiness								U
1804N	390 2C3H Coast Guard Support	21,870			161,885		161,885	183,755	U
	Total Mobilization Preparation	88,719			173,790		173,790	262,509	
	Total, BA 02: Mobilization	704,510			175,659		175,659	880,169	

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	FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----	S e c
1804N Operation & Maintenance, Navy					
Budget Activity 03: Training and Recruiting					
Accession Training					
1804N 400 3A1J Officer Acquisition	153,921	143,794		143,794	U
1804N 410 3A2J Recruit Training	11,062	8,519		8,519	U
1804N 420 3A3J Reserve Officers Training Corps	141,057	143,445		143,445	U
Total Accession Training	306,040	295,758		295,758	
Basic Skill and Advanced Training					
1804N 430 3B1K Specialized Skill Training	681,322	699,150	43,351	742,501	U
1804N 440 3B2K Flight Training	7,878	5,310		5,310	U
1804N 450 3B3K Professional Development Education	169,475	172,851		172,851	U
1804N 460 3B4K Training Support	216,863	222,728		222,728	U
Total Basic Skill and Advanced Training	1,075,538	1,100,039	43,351	1,143,390	
Recruiting and Other Training & Education					
1804N 470 3C1L Recruiting and Advertising	234,387	224,669		224,669	U
1804N 480 3C3L Off-Duty and Voluntary Education	135,124	130,569		130,569	U
1804N 490 3C4L Civilian Education and Training	63,160	73,730		73,730	U
1804N 500 3C5L Junior ROTC	53,174	50,400		50,400	U
Total Recruiting and Other Training & Education	485,845	479,368		479,368	
Total, BA 03: Training and Recruiting	1,867,423	1,875,165	43,351	1,918,516	
Budget Activity 04: Admin & Srvwd Activities					
Servicewide Support					
1804N 510 4A1M Administration	996,124	893,429	3,764	897,193	U
1804N 520 4A2M External Relations	11,487	14,570	515	15,085	U
1804N 530 4A3M Civilian Manpower and Personnel Management	129,185	124,070		124,070	U
1804N 540 4A4M Military Manpower and Personnel Management	349,544	365,767	5,409	371,176	U
1804N 550 4A5M Other Personnel Support	255,111	285,927	1,578	287,505	U
1804N 560 4A6M Servicewide Communications	365,076	319,908	25,617	345,525	U
1804N 570 4A6S Spectrum Relocation Pre-Auction	88				U
1804N 580 4A8M Medical Activities	24,768				U
Total Servicewide Support	2,131,383	2,003,671	36,883	2,040,554	
Logistics Operations and Technical Support					
1804N 590 4B1N Servicewide Transportation	248,395	171,659	126,700	298,359	U
1804N 600 4B2E Environmental Programs	299,733				U

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 (Dollars in Thousands)

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	FY 2018 Base Request -----	FY 2018 June Amendment Base -----	FY 2018 Amendment Emergency -----	FY 2018 OCO Request -----	FY 2018 Amendment OCO -----	FY 2018 Total OCO -----	FY 2018 Grand Total -----	S e c
1804N Operation & Maintenance, Navy								
Budget Activity 03: Training and Recruiting								
Accession Training								
1804N 400 3A1J Officer Acquisition	143,924						143,924	U
1804N 410 3A2J Recruit Training	8,975						8,975	U
1804N 420 3A3J Reserve Officers Training Corps	144,708						144,708	U
Total Accession Training	297,607						297,607	
Basic Skill and Advanced Training								
1804N 430 3B1K Specialized Skill Training	812,708			43,369		43,369	856,077	U
1804N 440 3B2K Flight Training								U
1804N 450 3B3K Professional Development Education	180,448						180,448	U
1804N 460 3B4K Training Support	234,596						234,596	U
Total Basic Skill and Advanced Training	1,227,752			43,369		43,369	1,271,121	
Recruiting and Other Training & Education								
1804N 470 3C1L Recruiting and Advertising	177,517						177,517	U
1804N 480 3C3L Off-Duty and Voluntary Education	103,154						103,154	U
1804N 490 3C4L Civilian Education and Training	72,216						72,216	U
1804N 500 3C5L Junior ROTC	53,262						53,262	U
Total Recruiting and Other Training & Education	406,149						406,149	
Total, BA 03: Training and Recruiting	1,931,508			43,369		43,369	1,974,877	
Budget Activity 04: Admin & Srvwd Activities								
Servicewide Support								
1804N 510 4A1M Administration	1,135,429			3,217		3,217	1,138,646	U
1804N 520 4A2M External Relations								U
1804N 530 4A3M Civilian Manpower and Personnel Management	149,365						149,365	U
1804N 540 4A4M Military Manpower and Personnel Management	386,749			7,356		7,356	394,105	U
1804N 550 4A5M Other Personnel Support								U
1804N 560 4A6M Servicewide Communications								U
1804N 570 4A6S Spectrum Relocation Pre-Auction								U
1804N 580 4A8M Medical Activities								U
Total Servicewide Support	1,671,543			10,573		10,573	1,682,116	
Logistics Operations and Technical Support								
1804N 590 4B1N Servicewide Transportation	165,301			67,938		67,938	233,239	U
1804N 600 4B2E Environmental Programs								U

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		FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----	S e c
1804N	Operation & Maintenance, Navy					
1804N	610 4B2N Planning, Engineering, and Program Support	281,663	270,863		270,863	U
1804N	620 4B3N Acquisition, Logistics, and Oversight	1,121,801	1,112,763	9,261	1,122,024	U
1804N	630 4B5N Hull, Mechanical and Electrical Support	48,855	49,078		49,078	U
1804N	640 4B6N Combat/Weapons Systems	25,563	24,989		24,989	U
1804N	650 4B7N Space and Electronic Warfare Systems	71,547	72,966		72,966	U
	Total Logistics Operations and Technical Support	2,097,557	1,702,318	135,961	1,838,279	
	Investigations and Security Programs					
1804N	660 4C1P Investigative and Security Services	649,759	595,433	1,501	596,934	U
	Total Investigations and Security Programs	649,759	595,433	1,501	596,934	
	Support of Other Nations					
1804N	720 4D1Q International Headquarters and Agencies	4,871	4,809		4,809	U
	Total Support of Other Nations	4,871	4,809		4,809	
	Spectrum/Telecommunications					
1804N	730 4S09 HQ Transition Process Management	154				U
1804N	740 4S56 DON Robotics Transition Support	2,669				U
1804N	750 4S59 DON HQ Transition Process Management	4,258				U
	Total Spectrum/Telecommunications	7,081				
	Cancelled Accounts					
1804N	760 4EMM Cancelled Account Adjustments	7,056				U
1804N	770 4EPJ Judgement Fund	493				U
	Total Cancelled Accounts	7,549				
1804N	999 Classified Programs	528,104	511,840	23,964	535,804	U
	Total, BA 04: Admin & Srvwd Activities	5,426,304	4,818,071	198,309	5,016,380	
	Total Operation & Maintenance, Navy	46,911,652	38,317,927	9,677,448	47,995,375	

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02 Nov 2017

		FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total	S e c
		-----	-----	-----	-----	-----	-----	-----	-
1804N	Operation & Maintenance, Navy								
1804N	610 4B2N Planning, Engineering, and Program Support	311,616						311,616	U
1804N	620 4B3N Acquisition, Logistics, and Oversight	665,580			9,446		9,446	675,026	U
1804N	630 4B5N Hull, Mechanical and Electrical Support								U
1804N	640 4B6N Combat/Weapons Systems								U
1804N	650 4B7N Space and Electronic Warfare Systems								U
	Total Logistics Operations and Technical Support	1,142,497			77,384		77,384	1,219,881	
	Investigations and Security Programs								
1804N	660 4C1P Investigative and Security Services	659,143			1,528		1,528	660,671	U
	Total Investigations and Security Programs	659,143			1,528		1,528	660,671	
	Support of Other Nations								
1804N	720 4D1Q International Headquarters and Agencies								U
	Total Support of Other Nations								
	Spectrum/Telecommunications								
1804N	730 4S09 HQ Transition Process Management								U
1804N	740 4S56 DON Robotics Transition Support								U
1804N	750 4S59 DON HQ Transition Process Management								U
	Total Spectrum/Telecommunications								
	Cancelled Accounts								
1804N	760 4EMM Cancelled Account Adjustments								U
1804N	770 4EPJ Judgement Fund								U
	Total Cancelled Accounts								
1804N	999 Classified Programs	543,193			12,751		12,751	555,944	U
	Total, BA 04: Admin & Srvwd Activities	4,016,376			102,236		102,236	4,118,612	
	Total Operation & Maintenance, Navy	45,439,407		673,500	5,875,015	76,274	5,951,289	52,064,196	

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Department of the Navy  
FY 2018 OCO Amendment  
Operation and Maintenance, Navy  
Budget Activity: Operating Forces  
Activity Group: Air Operations  
Detail by Subactivity Group: Fleet Air Training

	<u>(\$ in Thousands)</u>	
<b><u>C. Reconciliation of Increases and Decreases</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
<b>FY 2018 President's Budget Request</b>		<b>0</b>
<b>FY 2018 OCO Amendment</b>		<b>5,674</b>
<b>1) Increases</b>		<b>5,674</b>
a) Increases in FY 2018		5,674
i) FY 2018 Amendment – Increase supports the Naval Special Warfare (NSW) Joint Terminal Attack Controller (JTAC) training requirements for deployments supporting Operations Inherent Resolve, Enduring Freedom, and Freedom Sentinel. This funding request was included in the OCO section of the FY 2018 Unfunded Priorities List sent to Congress in May 2017.	5,674	
 OP-32 Lines Affected		
308 – Increase \$85		
610 – Increase \$56		
613 – Increase \$23		
771 – Increase \$3,296		
925 – Increase \$757		
934 – Increase \$1,457		
 <b>FY 2018 Total Request</b>		<b>5,674</b>

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Department of the Navy  
FY 2018 OCO Amendment  
Operation and Maintenance, Navy  
Budget Activity: Operating Forces  
Activity Group: Ship Operations  
Detail by Subactivity Group: Mission and Other Ship Operations

	<u>(\$ in Thousands)</u>	
<b>C. <u>Reconciliation of Increases and Decreases</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
<b>FY 2018 President's Budget Request</b>		<b>855,453</b>
<b>FY 2018 OCO Amendment</b>		<b>16,000</b>
<b>1) Increases</b>		<b>16,000</b>
a) Increases in FY 2018		16,000
i) FY 2018 Amendment - Increase supports Counter-Unmanned Aerial Systems (UAS) per Joint Rapid Acquisition Cell (JRAC) approved Joint Urgent Operational Needs (JUON). The Situation Awareness System (SAwS) is a non-POR Government-owned situation awareness control and display hardware/software system. Funding increase will allow for installation on 11 MSC ships.	16,000	
 OP-32 Line Affected 412 – Increase \$16,000		
 <b>FY 2018 Total Request</b>		<b>871,453</b>

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Department of the Navy  
FY 2018 OCO Amendment  
Operation and Maintenance, Navy  
Budget Activity: Operating Forces  
Activity Group: Combat Operations/Support  
Detail by Subactivity Group: Combat Support Forces

	<u>(\$ in Thousands)</u>	
<b>C. <u>Reconciliation of Increases and Decreases</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
<b>FY 2018 President's Budget Request</b>		<b>605,936</b>
<b>FY 2018 OCO Amendment</b>		<b>6,000</b>
<b>1) Increases</b>		<b>6,000</b>
a) Increases in FY 2018		<b>6,000</b>
i) FY 2018 Amendment - Increase supports Counter-Unmanned Aerial Systems (UAS) per Joint Rapid Acquisition Cell (JRAC) approved Joint Urgent Operational Needs (JUON). Funding is based on five field service representatives with program, engineering, and maintenance support.	6,000	
OP-32 Line Affected		
989 – Increase \$6,000		
<b>FY 2018 Total Request</b>		<b>611,936</b>

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Department of the Navy  
FY 2018 OCO Amendment  
Operation and Maintenance, Navy  
Budget Activity: Operating Forces  
Activity Group: Weapons Support  
Detail by Subactivity Group: Weapons Maintenance

	<u>(\$ in Thousands)</u>	
<b>C. <u>Reconciliation of Increases and Decreases</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
<b>FY 2018 President's Budget Request</b>		<b>325,011</b>
<b>FY 2018 OCO Amendment</b>		<b>46,600</b>
<b>1) Increases</b>		<b>46,600</b>
a) Increases in FY 2018		46,600
i) FY 2018 Amendment – Increase is associated with additional hours of full motion video for Intelligence, Surveillance, and Reconnaissance (ISR) support to Operation Freedom's Sentinel. Funding provides critical ISR for commanders, operational forces, and special operations missions.	46,600	
 OP-32 Line Affected 929 – Increase \$46,600		
 <b>FY 2018 Total Request</b>		<b>371,611</b>

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Department of the Navy  
FY 2018 OCO Amendment  
Operation and Maintenance, Navy  
Budget Activity: Operating Forces  
Activity Group: Base Support  
Detail by Subactivity Group: Base Operating Support

	<u>(\$ in Thousands)</u>	
<b>C. <u>Reconciliation of Increases and Decreases</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
<b>FY 2018 President's Budget Request</b>		<b>228,246</b>
<b>FY 2018 OCO Amendment</b>		<b>2,000</b>
<b>1) Increases</b>		<b>2,000</b>
a) Amended Budget Submission Increases		2,000
i) FY 2018 Amendment - Increase supports Counter-Unmanned Aerial Systems (UAS) per Joint Rapid Acquisition Cell (JRAC) approved Joint Urgent Operational Needs (JUON). Funding supports 40 sites. Installation requires concrete pad/foundation, power supply, and communications (System hardware (UPS, A/C, servers) housing encasement included in initial procurement and install).	2,000	
OP-32 Line Affected		
987 – Increase 2,000		
<b>FY 2018 Total Request</b>		<b>230,246</b>

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DEPARTMENT OF THE NAVY  
FISCAL YEAR (FY) 2018  
OCO AMENDMENT



JUSTIFICATION OF ESTIMATES  
NOVEMBER 2017

Operation and Maintenance, Marine Corps (OMMC)

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## UNCLASSIFIED

Department of Defense  
 FY 2018 President's Budget Amendment  
 Exhibit O-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation Summary -----	FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----
Department of the Navy				
Operation & Maintenance, Marine Corps	7,134,589	5,660,989	2,043,055	7,704,044
Total Department of the Navy	7,134,589	5,660,989	2,043,055	7,704,044
 Total Operation and Maintenance Title	 7,134,589	 5,660,989	 2,043,055	 7,704,044

## UNCLASSIFIED

Department of Defense  
 FY 2018 President's Budget Amendment  
 Exhibit O-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation Summary	FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total
-----	-----	-----	-----	-----	-----	-----	-----
Department of the Navy							
Operation & Maintenance, Marine Corps	6,933,408			1,116,640	24,734	1,141,374	8,074,782
Total Department of the Navy	6,933,408			1,116,640	24,734	1,141,374	8,074,782
 Total Operation and Maintenance Title	 6,933,408			 1,116,640	 24,734	 1,141,374	 8,074,782



## UNCLASSIFIED

Department of Defense  
 FY 2018 President's Budget Amendment  
 Exhibit O-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

	FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----	S e c
1106N Operation & Maintenance, Marine Corps					
TOTAL, BA 01: Operating Forces	5,794,487	4,330,693	1,915,955	6,246,648	
TOTAL, BA 03: Training and Recruiting	757,132	800,814	31,750	832,564	
TOTAL, BA 04: Admin & Srwd Activities	582,970	529,482	95,350	624,832	
Total Operation & Maintenance, Marine Corps	7,134,589	5,660,989	2,043,055	7,704,044	
Details:					
Budget Activity 01: Operating Forces					
Expeditionary Forces					
1106N 010 1A1A Operational Forces	1,311,278	476,559	1,076,318	1,552,877	U
1106N 020 1A2A Field Logistics	1,125,226	954,624	281,308	1,235,932	U
1106N 030 1A3A Depot Maintenance	409,583	208,783	147,000	355,783	U
Total Expeditionary Forces	2,846,087	1,639,966	1,504,626	3,144,592	
USMC Prepositioning					
1106N 040 1B1B Maritime Prepositioning	84,964	85,275		85,275	U
Total USMC Prepositioning	84,964	85,275		85,275	
Combat Operations/Support					
1106N 050 1CCY Cyberspace Activities					U
Total Combat Operations/Support					
Base Support					
1106N 060 BSM1 Sustainment, Restoration & Modernization	730,486	662,514	135,844	798,358	U
1106N 070 BSS1 Base Operating Support	2,132,950	1,942,938	275,485	2,218,423	U
Total Base Support	2,863,436	2,605,452	411,329	3,016,781	
Total, BA 01: Operating Forces	5,794,487	4,330,693	1,915,955	6,246,648	
Budget Activity 03: Training and Recruiting					
Accession Training					
1106N 080 3A1C Recruit Training	18,343	19,121		19,121	U
1106N 090 3A2C Officer Acquisition	1,577	935		935	U
Total Accession Training	19,920	20,056		20,056	
Basic Skill and Advanced Training					
1106N 100 3B1D Specialized Skill Training	97,498	101,249		101,249	U
1106N 110 3B3D Professional Development Education	43,784	45,853		45,853	U

O-118AMD: FY 2018 President's Budget Amendment (Published Version), as of November 2, 2017 at 16:15:56

## UNCLASSIFIED

Department of Defense  
 FY 2018 President's Budget Amendment  
 Exhibit O-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

	FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total	S e c
	-----	-----	-----	-----	-----	-----	-----	-
1106N Operation & Maintenance, Marine Corps								
TOTAL, BA 01: Operating Forces	5,568,285			1,022,469	23,609	1,046,078	6,614,363	
TOTAL, BA 03: Training and Recruiting	827,268			29,421		29,421	856,689	
TOTAL, BA 04: Admin & Srwd Activities	537,855			64,750	1,125	65,875	603,730	
Total Operation & Maintenance, Marine Corps	6,933,408			1,116,640	24,734	1,141,374	8,074,782	
Details:								
Budget Activity 01: Operating Forces								
Expeditionary Forces								
1106N 010 1A1A Operational Forces	967,949			710,790	9,223	720,013	1,687,962	U
1106N 020 1A2A Field Logistics	1,065,090			242,150	14,386	256,536	1,321,626	U
1106N 030 1A3A Depot Maintenance	286,635			52,000		52,000	338,635	U
Total Expeditionary Forces	2,319,674			1,004,940	23,609	1,028,549	3,348,223	
USMC Prepositioning								
1106N 040 1B1B Maritime Prepositioning	85,577						85,577	U
Total USMC Prepositioning	85,577						85,577	
Combat Operations/Support								
1106N 050 1CCY Cyberspace Activities	181,518						181,518	U
Total Combat Operations/Support	181,518						181,518	
Base Support								
1106N 060 BSM1 Sustainment, Restoration & Modernization	785,264						785,264	U
1106N 070 BSS1 Base Operating Support	2,196,252			17,529		17,529	2,213,781	U
Total Base Support	2,981,516			17,529		17,529	2,999,045	
Total, BA 01: Operating Forces	5,568,285			1,022,469	23,609	1,046,078	6,614,363	
Budget Activity 03: Training and Recruiting								
Accession Training								
1106N 080 3A1C Recruit Training	16,163						16,163	U
1106N 090 3A2C Officer Acquisition	1,154						1,154	U
Total Accession Training	17,317						17,317	
Basic Skill and Advanced Training								
1106N 100 3B1D Specialized Skill Training	100,398						100,398	U
1106N 110 3B3D Professional Development Education	46,474						46,474	U

O-118AMD: FY 2018 President's Budget Amendment (Published Version), as of November 2, 2017 at 16:15:56

## UNCLASSIFIED

Department of Defense  
FY 2018 President's Budget Amendment  
Exhibit O-1 FY 2018 President's Budget Amendment  
Total Obligational Authority  
(Dollars in Thousands)

02 Nov 2017

		FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----	S e c
1106N	Operation & Maintenance, Marine Corps					
1106N	120 3B4D Training Support	369,328	385,335	31,750	417,085	U
	Total Basic Skill and Advanced Training	510,610	532,437	31,750	564,187	
	Recruiting and Other Training & Education					
1106N	130 3C1F Recruiting and Advertising	169,415	189,566		189,566	U
1106N	140 3C2F Off-Duty and Voluntary Education	33,955	35,133		35,133	U
1106N	150 3C3F Junior ROTC	23,232	23,622		23,622	U
	Total Recruiting and Other Training & Education	226,602	248,321		248,321	
	Total, BA 03: Training and Recruiting	757,132	800,814	31,750	832,564	
	Budget Activity 04: Admin & Srvwd Activities					
	Servicewide Support					
1106N	160 4A3G Servicewide Transportation	86,885	34,534	73,800	108,334	U
1106N	170 4A4G Administration	373,939	370,532	17,900	388,432	U
1106N	190 4B3N Acquisition and Program Management	74,090	76,896		76,896	U
	Total Servicewide Support	534,914	481,962	91,700	573,662	
	Spectrum/Telecommunications					
1106N	200 4S38 DON Video Transition Support	1,100				U
	Total Spectrum/Telecommunications	1,100				
	Cancelled Accounts					
1106N	210 4EMM Cancelled Account Adjustment	63				U
	Total Cancelled Accounts	63				
1106N	999 Classified Programs	46,893	47,520	3,650	51,170	U
	Total, BA 04: Admin & Srvwd Activities	582,970	529,482	95,350	624,832	
	Total Operation & Maintenance, Marine Corps	7,134,589	5,660,989	2,043,055	7,704,044	

## UNCLASSIFIED

Department of Defense  
 FY 2018 President's Budget Amendment  
 Exhibit O-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

	FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total	S e c
	-----	-----	-----	-----	-----	-----	-----	-
1106N Operation & Maintenance, Marine Corps								
1106N 120 3B4D Training Support	405,039			29,421		29,421	434,460	U
Total Basic Skill and Advanced Training	551,911			29,421		29,421	581,332	
Recruiting and Other Training & Education								
1106N 130 3C1F Recruiting and Advertising	201,601						201,601	U
1106N 140 3C2F Off-Duty and Voluntary Education	32,045						32,045	U
1106N 150 3C3F Junior ROTC	24,394						24,394	U
Total Recruiting and Other Training & Education	258,040						258,040	
Total, BA 03: Training and Recruiting	827,268			29,421		29,421	856,689	
Budget Activity 04: Admin & Srvwd Activities								
Servicewide Support								
1106N 160 4A3G Servicewide Transportation	28,827			61,600	625	62,225	91,052	U
1106N 170 4A4G Administration	378,683						378,683	U
1106N 190 4B3N Acquisition and Program Management	77,684						77,684	U
Total Servicewide Support	485,194			61,600	625	62,225	547,419	
Spectrum/Telecommunications								
1106N 200 4S38 DON Video Transition Support								U
Total Spectrum/Telecommunications								
Cancelled Accounts								
1106N 210 4EMM Cancelled Account Adjustment								U
Total Cancelled Accounts								
1106N 999 Classified Programs	52,661			3,150	500	3,650	56,311	U
Total, BA 04: Admin & Srvwd Activities	537,855			64,750	1,125	65,875	603,730	
Total Operation & Maintenance, Marine Corps	6,933,408			1,116,640	24,734	1,141,374	8,074,782	

Department of the Navy  
FY 2018 OCO Amendment  
Operation and Maintenance, Marine Corps  
Budget Activity: Operating Forces  
Activity Group: Expeditionary Forces  
Detail by Subactivity Group: Operational Forces

	<u>(\$ in Thousands)</u>	
<b><u>C. Reconciliation of Increases and Decreases</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
<b>FY 2018 President's Budget Request</b>		<b>710,790</b>
<b>FY 2018 OCO Amendment</b>		<b>9,223</b>
<b>1) Increases</b>		<b>9,223</b>
a) Amended Budget Submission Increases		9,223
i) Increase in operations and maintenance based on increased deployments in support of Operation Freedom's Sentinel (OFS). These funds support supplies, equipment maintenance, and travel costs for the increased number of Marines and operational tempo.	9,223	
OP-32 Lines Affected		
308 – Increase \$2,107		
920 – Increase \$3,537		
922 – Increase \$1,345		
989 – Increase \$2,234		
<b>FY 2018 Budget Request</b>		<b>720,013</b>

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Department of the Navy  
FY 2018 OCO Amendment  
Operation and Maintenance, Marine Corps  
Budget Activity: Operating Forces  
Activity Group: Expeditionary Forces  
Detail by Subactivity Group: Field Logistics

	<u>(\$ in Thousands)</u>	
<b><u>C. Reconciliation of Increases and Decreases</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
<b>FY 2018 President's Budget Request</b>		<b>242,150</b>
<b>FY 2018 OCO Amendment</b>		<b>14,386</b>
<b>1) Increases</b>		<b>14,386</b>
a) Amended Budget Submission Increases		14,386
i) Increase in communication systems, combat services support, and logistics support activities in support of Operation Freedom's Sentinel (OFS). These funds support the Consolidated Storage Program (CSP) and the associated Care of Supplies in Storage Program. Funding will provide Contract Logistics Support (CLS) to operate Individual Issue Facilities (IIFs) and Unit Issue Facilities (UIFs) in the CSP network. Work includes the management of the consolidated issue, recovery, storage, requisition and maintenance of Infantry Combat Equipment (ICE), Special Training Allowance Pool (STAP) Equipment and Soft-Walled Shelters and Camouflage Netting (SWS&CN).	14,386	
OP-32 Lines Affected		
922 – Increase \$1,050		
925 – Increase \$736		
932 – Increase \$7,400		
990 – Increase \$5,200		
<b>FY 2018 Budget Request</b>		<b>256,536</b>

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Department of the Navy  
FY 2018 OCO Amendment  
Operation and Maintenance, Marine Corps  
Budget Activity: Administration and Service-Wide Activities  
Activity Group: Servicewide Support  
Detail by Subactivity Group: Servicewide Transportation

	<u>(\$ in Thousands)</u>	
<b><u>C. Reconciliation of Increases and Decreases</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
<b>FY 2018 President's Budget Request</b>		<b>61,600</b>
<b>FY 2018 OCO Amendment</b>		<b>625</b>
<b>1) Increases</b>		<b>625</b>
a) Amended Budget Submission Increases		625
i) Second Destination Transportation. Increase supports increased deployments in support of Operation Freedom's Sentinel (OFS). Equipment and ammunitions will be shipped by the Air Mobility Command.	625	
OP-32 Line Affected		
705 – Increase \$625		
<b>FY 2018 Budget Request</b>		<b>62,225</b>

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DEPARTMENT OF THE NAVY  
FISCAL YEAR (FY) 2018  
OCO AMENDMENT



JUSTIFICATION OF ESTIMATES  
NOVEMBER 2017

Other Procurement, Navy (OPN)

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## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation -----	FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----
Other Procurement, Navy	6,585,466	6,308,919	251,083	6,560,002
Total Department of the Navy	6,585,466	6,308,919	251,083	6,560,002

## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation -----	FY 2018 Base Request -----	FY 2018 June Amendment Base -----	FY 2018 Amendment Emergency -----
Other Procurement, Navy	8,277,789	-374,925	
Total Department of the Navy	8,277,789	-374,925	

## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation -----	FY 2018 OCO Request -----	FY 2018 Amendment OCO -----	FY 2018 Total OCO -----	FY 2018 Grand Total -----
Other Procurement, Navy	220,059	31,500	251,559	8,154,423
Total Department of the Navy	220,059	31,500	251,559	8,154,423

## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation: Other Procurement, Navy

Budget Activity -----	FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----
01. Ships Support Equipment	1,942,753	1,996,573	83,000	2,079,573
02. Communications & Electronics Equip	2,347,567	2,033,528	41,500	2,075,028
03. Aviation Support Equipment	419,644	419,210		419,210
04. Ordnance Support Equipment	852,190	905,507	104,434	1,009,941
05. Civil Engineering Support Equip	55,671	79,095	630	79,725
06. Supply Support Equipment	247,302	316,609		316,609
07. Personnel & Command Support Equip	444,006	358,737	21,519	380,256
08. Spares and Repair Parts	276,333	199,660		199,660
Total Other Procurement, Navy	6,585,466	6,308,919	251,083	6,560,002



## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation: Other Procurement, Navy

Budget Activity -----	FY 2018 Base Request -----	FY 2018 June Amendment Base -----	FY 2018 Amendment Emergency -----
01. Ships Support Equipment	3,076,818	-364,925	
02. Communications & Electronics Equip	2,565,260	-10,000	
03. Aviation Support Equipment	441,542		
04. Ordnance Support Equipment	929,371		
05. Civil Engineering Support Equip	99,619		
06. Supply Support Equipment	510,285		
07. Personnel & Command Support Equip	376,329		
08. Spares and Repair Parts	278,565		
Total Other Procurement, Navy	8,277,789	-374,925	

## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation: Other Procurement, Navy

Budget Activity -----	FY 2018 OCO Request -----	FY 2018 Amendment OCO -----	FY 2018 Total OCO -----	FY 2018 Grand Total -----
01. Ships Support Equipment	30,348		30,348	2,742,241
02. Communications & Electronics Equip	62,622	3,100	65,722	2,620,982
03. Aviation Support Equipment	29,245		29,245	470,787
04. Ordnance Support Equipment	34,406	28,400	62,806	992,177
05. Civil Engineering Support Equip	5,136		5,136	104,755
06. Supply Support Equipment	584		584	510,869
07. Personnel & Command Support Equip	56,540		56,540	432,869
08. Spares and Repair Parts	1,178		1,178	279,743
Total Other Procurement, Navy	220,059	31,500	251,559	8,154,423

## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2016 Base + OCO Quantity Cost	FY 2017 Base Enactment Quantity Cost	FY 2017 OCO Enactment Quantity Cost	FY 2017 Total (Base + OCO) Quantity Cost	S e c
Budget Activity 01: Ships Support Equipment							
Ship Propulsion Equipment							
1	LM-2500 Gas Turbine	A	4,881				U
2	Allison 501k Gas Turbine	A	5,814				U
3	Surface Power Equipment	A		15,514		15,514	U
4	Hybrid Electric Drive (HED)		29,106	35,933		35,933	U
Generators							
5	Surface Combatant HM&E	A	36,860	27,447		27,447	U
Navigation Equipment							
6	Other Navigation Equipment	A	63,481	62,971		62,971	U
Periscopes							
7	Sub Periscopes & Imaging Equip	A	63,109				U
Other Shipboard Equipment							
8	Sub Periscope, Imaging and Supt Equip Prog	A		133,963	18,000	151,963	U
9	DDG Mod	A	421,195	364,614	65,000	429,614	U
10	Firefighting Equipment	A	13,983	13,752		13,752	U
11	Command and Control Switchboard	A	2,255	2,140		2,140	U
12	LHA/LHD Midlife	A	11,017	22,768		22,768	U
13	LCC 19/20 Extended Service Life Program	A	8,631				U
14	Pollution Control Equipment	B	16,609	16,510		16,510	U

P-118AMD: FY 2018 President's Budget Amendment (Published Version), as of November 2, 2017 at 16:22:00

## UNCLASSIFIED

Department of the Navy  
FY 2018 President's Budget Amendment  
Exhibit P-1 FY 2018 President's Budget Amendment  
Total Obligational Authority  
(Dollars in Thousands)

02 Nov 2017

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Base Request Quantity	Cost	FY 2018 June Amendment Base Quantity	Cost	FY 2018 Amendment Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
Budget Activity 01: Ships Support Equipment									
-----									
Ship Propulsion Equipment									
1	LM-2500 Gas Turbine	A							U
2	Allison 501k Gas Turbine	A							U
3	Surface Power Equipment	A		41,910					U
4	Hybrid Electric Drive (HED)			6,331					U
Generators									
5	Surface Combatant HM&E	A		27,392					U
Navigation Equipment									
6	Other Navigation Equipment	A		65,943					U
Periscopes									
7	Sub Periscopes & Imaging Equip	A							U
Other Shipboard Equipment									
8	Sub Periscope, Imaging and Supt Equip Prog	A		151,240					U
9	DDG Mod	A		603,355					U
10	Firefighting Equipment	A		15,887					U
11	Command and Control Switchboard	A		2,240					U
12	LHA/LHD Midlife	A		30,287		-26,000			U
13	LCC 19/20 Extended Service Life Program	A							U
14	Pollution Control Equipment	B		17,293					U

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

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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 OCO Request Quantity	Cost	FY 2018 Amendment OCO Quantity	Cost	FY 2018 Total OCO Quantity	Cost	FY 2018 Grand Total Quantity	Cost	S e c
Budget Activity 01: Ships Support Equipment											
-----											
Ship Propulsion Equipment											
1	LM-2500 Gas Turbine	A									U
2	Allison 501k Gas Turbine	A									U
3	Surface Power Equipment	A							41,910		U
4	Hybrid Electric Drive (HED)								6,331		U
Generators											
5	Surface Combatant HM&E	A							27,392		U
Navigation Equipment											
6	Other Navigation Equipment	A							65,943		U
Periscopes											
7	Sub Periscopes & Imaging Equip	A									U
Other Shipboard Equipment											
8	Sub Periscope, Imaging and Supt Equip Prog	A							151,240		U
9	DDG Mod	A							603,355		U
10	Firefighting Equipment	A							15,887		U
11	Command and Control Switchboard	A							2,240		U
12	LHA/LHD Midlife	A							4,287		U
13	LCC 19/20 Extended Service Life Program	A									U
14	Pollution Control Equipment	B							17,293		U

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Line No	Item Nomenclature	Ident Code	FY 2016 Base + OCO Quantity Cost	FY 2017 Base Enactment Quantity Cost	FY 2017 OCO Enactment Quantity Cost	FY 2017 Total (Base + OCO) Quantity Cost	S e c
15	Submarine Support Equipment	A	10,498	8,995		8,995	U
16	Virginia Class Support Equipment	A	35,747	63,908		63,908	U
17	LCS Class Support Equipment		39,349	43,819		43,819	U
18	Submarine Batteries		23,072	22,459		22,459	U
19	LPD Class Support Equipment		37,929	33,992		33,992	U
20	DDG 1000 Class Support Equipment	A		33,404		33,404	U
21	Strategic Platform Support Equip	A	18,563	14,571		14,571	U
22	DSSP Equipment	A	8,851	806		806	U
23	CG Modernization	A	99,500	248,820		248,820	U
24	LCAC	A	15,125	3,090		3,090	U
25	Underwater EOD Programs		51,652	24,350		24,350	U
26	Items Less Than \$5 Million	A	89,349	64,054		64,054	U
27	Chemical Warfare Detectors	A	3,027	2,873		2,873	U
28	Submarine Life Support System	A	7,399	4,543		4,543	U
	Reactor Plant Equipment						
29	Reactor Power Units	A					U
30	Reactor Components	A	296,095	342,158		342,158	U
	Ocean Engineering						
31	Diving and Salvage Equipment	A	15,982	8,176		8,176	U

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Line No	Item Nomenclature	Ident Code	FY 2018 Base Request Quantity	Cost	FY 2018 June Amendment Base Quantity	Cost	FY 2018 Amendment Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
15	Submarine Support Equipment	A		27,990					U
16	Virginia Class Support Equipment	A		46,610					U
17	LCS Class Support Equipment			47,955					U
18	Submarine Batteries			17,594					U
19	LPD Class Support Equipment			61,908					U
20	DDG 1000 Class Support Equipment	A							U
21	Strategic Platform Support Equip	A		15,812					U
22	DSSP Equipment	A		4,178					U
23	CG Modernization	A		306,050					U
24	LCAC	A		5,507					U
25	Underwater EOD Programs			55,922					U
26	Items Less Than \$5 Million	A		96,909					U
27	Chemical Warfare Detectors	A		3,036					U
28	Submarine Life Support System	A		10,364					U
	Reactor Plant Equipment								
29	Reactor Power Units	A		324,925		-324,925			U
30	Reactor Components	A		534,468					U
	Ocean Engineering								
31	Diving and Salvage Equipment	A		10,619					U

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Line No	Item Nomenclature	Ident Code	FY 2018 OCO Request Quantity	Cost	FY 2018 Amendment OCO Quantity	Cost	FY 2018 Total OCO Quantity	Cost	FY 2018 Grand Total Quantity	Cost	S e c
15	Submarine Support Equipment	A							27,990		U
16	Virginia Class Support Equipment	A							46,610		U
17	LCS Class Support Equipment								47,955		U
18	Submarine Batteries								17,594		U
19	LPD Class Support Equipment								61,908		U
20	DDG 1000 Class Support Equipment	A									U
21	Strategic Platform Support Equip	A							15,812		U
22	DSSP Equipment	A							4,178		U
23	CG Modernization	A							306,050		U
24	LCAC	A							5,507		U
25	Underwater EOD Programs			12,348			12,348		68,270		U
26	Items Less Than \$5 Million	A							96,909		U
27	Chemical Warfare Detectors	A							3,036		U
28	Submarine Life Support System	A							10,364		U
	Reactor Plant Equipment										
29	Reactor Power Units	A									U
30	Reactor Components	A							534,468		U
	Ocean Engineering										
31	Diving and Salvage Equipment	A							10,619		U

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Line No	Item Nomenclature	Ident Code	FY 2016 Base + OCO Quantity Cost	FY 2017 Base Enactment Quantity Cost	FY 2017 OCO Enactment Quantity Cost	FY 2017 Total (Base + OCO) Quantity Cost	S e c
Small Boats							
32	Standard Boats	A	29,982	59,033		59,033	U
Training Equipment							
33	Other Ships Training Equipment	A	62,358				U
Production Facilities Equipment							
34	Operating Forces Ipe	A	61,718	71,921		71,921	U
Other Ship Support							
35	Nuclear Alterations	A	132,625	172,718		172,718	U
36	LCS Common Mission Modules Equipment		23,061	15,670		15,670	U
37	LCS MCM Mission Modules		67,451	29,724		29,724	U
38	LCS SUW Mission Modules		35,228	21,064		21,064	U
39	LCS In-Service Modernization	A					U
40	Remote Minehunting System (RMS)	A	53,077				U
Logistic Support							
41	LSD Midlife & Modernization		48,174	10,813		10,813	U
Total Ships Support Equipment			1,942,753	1,996,573	83,000	2,079,573	
Budget Activity 02: Communications & Electronics Equip							
-----							
Ship Sonars							
42	SPQ-9B Radar	A	19,841	10,376		10,376	U
43	AN/SQQ-89 Surf ASW Combat System	A	103,241	87,824		87,824	U

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Line No	Item Nomenclature	Ident Code	FY 2018 Base Request Quantity	Cost	FY 2018 June Amendment Base Quantity	Cost	FY 2018 Amendment Emergency Quantity	Cost	S e c
	Small Boats								
32	Standard Boats	A		46,094					U
	Training Equipment								
33	Other Ships Training Equipment	A							U
	Production Facilities Equipment								
34	Operating Forces Ipe	A		191,541					U
	Other Ship Support								
35	Nuclear Alterations	A							U
36	LCS Common Mission Modules Equipment			34,666					U
37	LCS MCM Mission Modules			55,870					U
38	LCS SUW Mission Modules			52,960					U
39	LCS In-Service Modernization	A		74,426					U
40	Remote Minehunting System (RMS)	A							U
	Logistic Support								
41	LSD Midlife & Modernization			89,536		-14,000			U
				-----		-----		-----	
	Total Ships Support Equipment			3,076,818		-364,925			
	Budget Activity 02: Communications & Electronics Equip								
	-----								
	Ship Sonars								
42	SPQ-9B Radar	A		30,086		-10,000			U
43	AN/SQQ-89 Surf ASW Combat System	A		102,222					U

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Line No	Item Nomenclature	Ident Code	FY 2018 OCO Request Quantity	Cost	FY 2018 Amendment OCO Quantity	Cost	FY 2018 Total OCO Quantity	Cost	FY 2018 Grand Total Quantity	Cost	S e c
	Small Boats										
32	Standard Boats	A		18,000				18,000		64,094	U
	Training Equipment										
33	Other Ships Training Equipment	A									U
	Production Facilities Equipment										
34	Operating Forces Ipe	A								191,541	U
	Other Ship Support										
35	Nuclear Alterations	A									U
36	LCS Common Mission Modules Equipment									34,666	U
37	LCS MCM Mission Modules									55,870	U
38	LCS SUW Mission Modules									52,960	U
39	LCS In-Service Modernization	A								74,426	U
40	Remote Minehunting System (RMS)	A									U
	Logistic Support										
41	LSD Midlife & Modernization									75,536	U
	Total Ships Support Equipment			30,348				30,348		2,742,241	

Budget Activity 02: Communications &amp; Electronics Equip

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Ship Sonars

42	SPQ-9B Radar	A								20,086	U
43	AN/SQQ-89 Surf ASW Combat System	A								102,222	U

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Line No	Item Nomenclature	Ident Code	FY 2016 Base + OCO Quantity Cost	FY 2017 Base Enactment Quantity Cost	FY 2017 OCO Enactment Quantity Cost	FY 2017 Total (Base + OCO) Quantity Cost	S e c
44	SSN Acoustics	A	232,134				U
45	SSN Acoustic Equipment	A		268,765	19,500	288,265	U
46	Undersea Warfare Support Equipment	A	7,331	7,163		7,163	U
47	Sonar Switches and Transducers	A	11,781				U
	ASW Electronic Equipment						
48	Submarine Acoustic Warfare System	A	19,718	21,291		21,291	U
49	SSTD	A	8,396	6,893		6,893	U
50	Fixed Surveillance System	A	146,968	145,701		145,701	U
51	SURTASS	A	26,153	33,743	10,000	43,743	U
52	Maritime Patrol and Reconnaissance Force	A	13,725				U
	Electronic Warfare Equipment						
53	AN/SLQ-32	A	259,271	244,001		244,001	U
	Reconnaissance Equipment						
54	Shipboard IW Exploit	A	138,002	169,021		169,021	U
55	Automated Identification System (AIS)		152	764		764	U
	Submarine Surveillance Equipment						
56	Submarine Support Equipment Prog	A	83,472				U
	Other Ship Electronic Equipment						
57	Cooperative Engagement Capability	B	25,695	17,965		17,965	U
58	Trusted Information System (TIS)		284				U

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Line No	Item Nomenclature	Ident Code	FY 2018 Base Request Quantity	Cost	FY 2018 June Amendment Base Quantity	Cost	FY 2018 Amendment Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
44	SSN Acoustics	A							U
45	SSN Acoustic Equipment	A		287,553					U
46	Undersea Warfare Support Equipment	A		13,653					U
47	Sonar Switches and Transducers	A							U
	ASW Electronic Equipment								
48	Submarine Acoustic Warfare System	A		21,449					U
49	SSTD	A		12,867					U
50	Fixed Surveillance System	A		300,102					U
51	SURTASS	A		30,180					U
52	Maritime Patrol and Reconnaissance Force	A							U
	Electronic Warfare Equipment								
53	AN/SLQ-32	A		240,433					U
	Reconnaissance Equipment								
54	Shipboard IW Exploit	A		187,007					U
55	Automated Identification System (AIS)			510					U
	Submarine Surveillance Equipment								
56	Submarine Support Equipment Prog	A							U
	Other Ship Electronic Equipment								
57	Cooperative Engagement Capability	B		23,892					U
58	Trusted Information System (TIS)								U

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Line No	Item Nomenclature	Ident Code	FY 2018 OCO Request Quantity	Cost	FY 2018 Amendment OCO Quantity	Cost	FY 2018 Total OCO Quantity	Cost	FY 2018 Grand Total Quantity	Cost	S e c
44	SSN Acoustics	A									U
45	SSN Acoustic Equipment	A		43,500			43,500		331,053		U
46	Undersea Warfare Support Equipment	A							13,653		U
47	Sonar Switches and Transducers	A									U
	ASW Electronic Equipment										
48	Submarine Acoustic Warfare System	A							21,449		U
49	SSTD	A							12,867		U
50	Fixed Surveillance System	A							300,102		U
51	SURTASS	A							30,180		U
52	Maritime Patrol and Reconnaissance Force	A									U
	Electronic Warfare Equipment										
53	AN/SLQ-32	A							240,433		U
	Reconnaissance Equipment										
54	Shipboard IW Exploit	A							187,007		U
55	Automated Identification System (AIS)								510		U
	Submarine Surveillance Equipment										
56	Submarine Support Equipment Prog	A									U
	Other Ship Electronic Equipment										
57	Cooperative Engagement Capability	B							23,892		U
58	Trusted Information System (TIS)										U

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Line No	Item Nomenclature	Ident Code	FY 2016 Base + OCO Quantity Cost	FY 2017 Base Enactment Quantity Cost	FY 2017 OCO Enactment Quantity Cost	FY 2017 Total (Base + OCO) Quantity Cost	S e c
59	Naval Tactical Command Support System (NTCSS)	A	14,416	12,336		12,336	U
60	ATDLS	A	22,169	27,921		27,921	U
61	Navy Command and Control System (NCCS)		4,054	4,556		4,556	U
62	Minesweeping System Replacement	A	21,014	35,444		35,444	U
63	Shallow Water MCM	B		8,875		8,875	U
64	Navstar GPS Receivers (SPACE)	A	11,129	7,701		7,701	U
65	American Forces Radio and TV Service	A	4,240	4,577		4,577	U
66	Strategic Platform Support Equip	A	17,440	8,972		8,972	U
	Training Equipment						
67	Other Training Equipment	A	41,314				U
	Aviation Electronic Equipment						
68	Matcals	A	10,011				U
69	Ashore ATC Equipment	A		71,892		71,892	U
70	Afloat ATC Equipment	A		32,011		32,011	U
71	Shipboard Air Traffic Control	B	9,346				U
72	Automatic Carrier Landing System	A	21,281				U
73	National Air Space System	B	25,621				U
74	Fleet Air Traffic Control Systems	A	8,249				U
75	Landing Systems	A	11,910				U
76	ID Systems	A	29,676	22,177		22,177	U

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Line No	Item Nomenclature	Ident Code	FY 2018 Base Request Quantity	Cost	FY 2018 June Amendment Base Quantity	Cost	FY 2018 Amendment Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
59	Naval Tactical Command Support System (NTCSS)	A		10,741					U
60	ATDLS	A		38,016					U
61	Navy Command and Control System (NCCS)			4,512					U
62	Minesweeping System Replacement	A		31,531					U
63	Shallow Water MCM	B		8,796					U
64	Navstar GPS Receivers (SPACE)	A		15,923					U
65	American Forces Radio and TV Service	A		2,730					U
66	Strategic Platform Support Equip	A		6,889					U
	Training Equipment								
67	Other Training Equipment	A							U
	Aviation Electronic Equipment								
68	Matcals	A							U
69	Ashore ATC Equipment	A		71,882					U
70	Afloat ATC Equipment	A		44,611					U
71	Shipboard Air Traffic Control	B							U
72	Automatic Carrier Landing System	A							U
73	National Air Space System	B							U
74	Fleet Air Traffic Control Systems	A							U
75	Landing Systems	A							U
76	ID Systems	A		21,239					U

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Line No	Item Nomenclature	Ident Code	FY 2018 OCO Request Quantity	Cost	FY 2018 Amendment OCO Quantity	Cost	FY 2018 Total OCO Quantity	Cost	FY 2018 Grand Total Quantity	Cost	S e c
59	Naval Tactical Command Support System (NTCSS)	A							10,741		U
60	ATDLS	A							38,016		U
61	Navy Command and Control System (NCCS)								4,512		U
62	Minesweeping System Replacement	A							31,531		U
63	Shallow Water MCM	B							8,796		U
64	Navstar GPS Receivers (SPACE)	A							15,923		U
65	American Forces Radio and TV Service	A							2,730		U
66	Strategic Platform Support Equip	A							6,889		U
	Training Equipment										
67	Other Training Equipment	A									U
	Aviation Electronic Equipment										
68	Matcals	A									U
69	Ashore ATC Equipment	A							71,882		U
70	Afloat ATC Equipment	A							44,611		U
71	Shipboard Air Traffic Control	B									U
72	Automatic Carrier Landing System	A									U
73	National Air Space System	B									U
74	Fleet Air Traffic Control Systems	A									U
75	Landing Systems	A									U
76	ID Systems	A							21,239		U

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Line No	Item Nomenclature	Ident Code	FY 2016 Base + OCO Quantity Cost	FY 2017 Base Enactment Quantity Cost	FY 2017 OCO Enactment Quantity Cost	FY 2017 Total (Base + OCO) Quantity Cost	S e c
77	Naval Mission Planning Systems	A	13,737	13,910		13,910	U
	Other Shore Electronic Equipment						
78	Deployable Joint Command & Control	A	1,314				U
79	Tactical/Mobile C4I Systems	A	13,600	24,178		24,178	U
80	DCGS-N	A	31,809	11,610	12,000	23,610	U
81	CANES		274,641	207,730		207,730	U
82	RADIAC	A	6,768	8,092		8,092	U
83	CANES-Intell		28,695	35,313		35,313	U
84	GPETE	A	6,962	6,428		6,428	U
85	MASF		290				U
86	Integ Combat System Test Facility	A	13,614	8,376		8,376	U
87	EMI Control Instrumentation	A	4,175	3,971		3,971	U
88	Items Less Than \$5 Million	A	66,176	47,664		47,664	U
	Shipboard Communications						
89	Shipboard Tactical Communications	A	8,277	10,383		10,383	U
90	Ship Communications Automation	A	121,817	101,087		101,087	U
91	Communications Items Under \$5M	A	17,025	10,403		10,403	U
	Submarine Communications						
92	Submarine Broadcast Support	A	15,485	31,459		31,459	U
93	Submarine Communication Equipment	A	58,037	62,879		62,879	U

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Line No	Item Nomenclature	Ident Code	FY 2018 Base Request Quantity	Cost	FY 2018 June Amendment Base Quantity	Cost	FY 2018 Amendment Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
77	Naval Mission Planning Systems	A		11,976					U
	Other Shore Electronic Equipment								
78	Deployable Joint Command & Control	A							U
79	Tactical/Mobile C4I Systems	A		32,425					U
80	DCGS-N	A		13,790					U
81	CANES			322,754					U
82	RADIAC	A		10,718					U
83	CANES-Intell			48,028					U
84	GPETE	A		6,861					U
85	MASF			8,081					U
86	Integ Combat System Test Facility	A		5,019					U
87	EMI Control Instrumentation	A		4,188					U
88	Items Less Than \$5 Million	A		105,292					U
	Shipboard Communications								
89	Shipboard Tactical Communications	A		23,695					U
90	Ship Communications Automation	A		103,990					U
91	Communications Items Under \$5M	A		18,577					U
	Submarine Communications								
92	Submarine Broadcast Support	A		29,669					U
93	Submarine Communication Equipment	A		86,204					U

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 Total Obligational Authority  
 (Dollars in Thousands)

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Line No	Item Nomenclature	Ident Code	FY 2018 OCO Request Quantity	Cost	FY 2018 Amendment OCO Quantity	Cost	FY 2018 Total OCO Quantity	Cost	FY 2018 Grand Total Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-----	----	-
77	Naval Mission Planning Systems	A		2,550				2,550		14,526	U
	Other Shore Electronic Equipment										
78	Deployable Joint Command & Control	A									U
79	Tactical/Mobile C4I Systems	A		7,900				7,900		40,325	U
80	DCGS-N	A		6,392				6,392		20,182	U
81	CANES									322,754	U
82	RADIAC	A								10,718	U
83	CANES-Intell									48,028	U
84	GPETE	A								6,861	U
85	MASF									8,081	U
86	Integ Combat System Test Facility	A								5,019	U
87	EMI Control Instrumentation	A								4,188	U
88	Items Less Than \$5 Million	A								105,292	U
	Shipboard Communications										
89	Shipboard Tactical Communications	A								23,695	U
90	Ship Communications Automation	A								103,990	U
91	Communications Items Under \$5M	A								18,577	U
	Submarine Communications										
92	Submarine Broadcast Support	A								29,669	U
93	Submarine Communication Equipment	A								86,204	U

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Line No	Item Nomenclature	Ident Code	FY 2016 Base + OCO Quantity Cost	FY 2017 Base Enactment Quantity Cost	FY 2017 OCO Enactment Quantity Cost	FY 2017 Total (Base + OCO) Quantity Cost	S e c
Satellite Communications							
94	Satellite Communications Systems	A	30,892	14,414		14,414	U
95	Navy Multiband Terminal (NMT)		118,142	33,992		33,992	U
Shore Communications							
96	Joint Communications Support Element (JCSE)	A	4,591	4,156		4,156	U
97	Electrical Power Systems	A	1,246				U
Cryptographic Equipment							
98	Info Systems Security Program (ISSP)	A	126,237	93,205		93,205	U
99	MIO Intel Exploitation Team	A	970	920		920	U
Cryptologic Equipment							
100	Cryptologic Communications Equip	A	11,433	21,098		21,098	U
Other Electronic Support							
101	Navy METOC-2	A	1,483				U
102	Navy METOC-3	A	483				U
103	USMC METOC-2	A	323				U
104	USMC METOC-1	A	323				U
105	Monitoring - Hub	A	308				U
106	DON UAS Video 5	A	3,000				U
107	DON Robotics	A	9,100				U
108	DON ACTS	A	1,544				U

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Line No	Item Nomenclature	Ident Code	FY 2018 Base Request Quantity	Cost	FY 2018 June Amendment Base Quantity	Cost	FY 2018 Amendment Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
	Satellite Communications								
94	Satellite Communications Systems	A		14,654					U
95	Navy Multiband Terminal (NMT)			69,764					U
	Shore Communications								
96	Joint Communications Support Element (JCSE)	A		4,256					U
97	Electrical Power Systems	A							U
	Cryptographic Equipment								
98	Info Systems Security Program (ISSP)	A		89,663					U
99	MIO Intel Exploitation Team	A		961					U
	Cryptologic Equipment								
100	Cryptologic Communications Equip	A		11,287					U
	Other Electronic Support								
101	Navy METOC-2	A							U
102	Navy METOC-3	A							U
103	USMC METOC-2	A							U
104	USMC METOC-1	A							U
105	Monitoring - Hub	A							U
106	DON UAS Video 5	A							U
107	DON Robotics	A							U
108	DON ACTS	A							U

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Line No	Item Nomenclature	Ident Code	FY 2018 OCO Request Quantity	Cost	FY 2018 Amendment OCO Quantity	Cost	FY 2018 Total OCO Quantity	Cost	FY 2018 Grand Total Quantity	Cost	S e c
Satellite Communications											
94	Satellite Communications Systems	A							14,654		U
95	Navy Multiband Terminal (NMT)								69,764		U
Shore Communications											
96	Joint Communications Support Element (JCSE)	A							4,256		U
97	Electrical Power Systems	A									U
Cryptographic Equipment											
98	Info Systems Security Program (ISSP)	A							89,663		U
99	MIO Intel Exploitation Team	A							961		U
Cryptologic Equipment											
100	Cryptologic Communications Equip	A		2,280		3,100		5,380	16,667		U
Other Electronic Support											
101	Navy METOC-2	A									U
102	Navy METOC-3	A									U
103	USMC METOC-2	A									U
104	USMC METOC-1	A									U
105	Monitoring - Hub	A									U
106	DON UAS Video 5	A									U
107	DON Robotics	A									U
108	DON ACTS	A									U

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Line No	Item Nomenclature	Ident Code	FY 2016 Base + OCO Quantity Cost	FY 2017 Base Enactment Quantity Cost	FY 2017 OCO Enactment Quantity Cost	FY 2017 Total (Base + OCO) Quantity Cost	S e c
109	Coast Guard Equipment	A	2,529	32,291		32,291	U
	Drug Interdiction Support						
110	Other Drug Interdiction Support	A	4,507				U
			-----	-----	-----	-----	
	Total Communications & Electronics Equip		2,347,567	2,033,528	41,500	2,075,028	
Budget Activity 03: Aviation Support Equipment							
-----							
	Sonobuoys						
111	Sonobuoys - All Types	A	166,385	158,588		158,588	U
	Aircraft Support Equipment						
112	Weapons Range Support Equipment	A	46,979	58,116		58,116	U
113	Aircraft Support Equipment	A	127,774	115,551		115,551	U
114	Advanced Arresting Gear (AAG)	A					U
115	Meteorological Equipment	A	14,997	29,253		29,253	U
116	DCRS/DPL	A	638	632		632	U
117	Airborne Mine Countermeasures	A	14,098	27,542		27,542	U
118	Aviation Support Equipment	A	48,773	29,528		29,528	U
			-----	-----	-----	-----	
	Total Aviation Support Equipment		419,644	419,210		419,210	
Budget Activity 04: Ordnance Support Equipment							
-----							
	Ship Gun System Equipment						
119	Ship Gun Systems Equipment	A	5,300	6,191		6,191	U

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Line No	Item Nomenclature	Ident Code	FY 2018 Base Request Quantity	Cost	FY 2018 June Amendment Base Quantity	Cost	FY 2018 Amendment Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
109	Coast Guard Equipment	A		36,584					U
	Drug Interdiction Support								
110	Other Drug Interdiction Support	A							U
				-----		-----		-----	
	Total Communications & Electronics Equip			2,565,260		-10,000			
Budget Activity 03: Aviation Support Equipment									
-----									
	Sonobuoys								
111	Sonobuoys - All Types	A		173,616					U
	Aircraft Support Equipment								
112	Weapons Range Support Equipment	A		72,110					U
113	Aircraft Support Equipment	A		108,482					U
114	Advanced Arresting Gear (AAG)	A		10,900					U
115	Meteorological Equipment	A		21,137					U
116	DCRS/DPL	A		660					U
117	Airborne Mine Countermeasures	A		20,605					U
118	Aviation Support Equipment	A		34,032					U
				-----		-----		-----	
	Total Aviation Support Equipment			441,542					
Budget Activity 04: Ordnance Support Equipment									
-----									
	Ship Gun System Equipment								
119	Ship Gun Systems Equipment	A		5,277					U

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Line No	Item Nomenclature	Ident Code	FY 2018 OCO Request Quantity	Cost	FY 2018 Amendment OCO Quantity	Cost	FY 2018 Total OCO Quantity	Cost	FY 2018 Grand Total Quantity	Cost	S e c
109	Coast Guard Equipment	A							36,584		U
	Drug Interdiction Support										
110	Other Drug Interdiction Support	A									U
	Total Communications & Electronics Equip			62,622		3,100		65,722	2,620,982		
Budget Activity 03: Aviation Support Equipment											
-----											
	Sonobuoys										
111	Sonobuoys - All Types	A							173,616		U
	Aircraft Support Equipment										
112	Weapons Range Support Equipment	A							72,110		U
113	Aircraft Support Equipment	A							108,482		U
114	Advanced Arresting Gear (AAG)	A							10,900		U
115	Meteorological Equipment	A							21,137		U
116	DCRS/DPL	A							660		U
117	Airborne Mine Countermeasures	A							20,605		U
118	Aviation Support Equipment	A		29,245			29,245		63,277		U
	Total Aviation Support Equipment			29,245			29,245		470,787		
Budget Activity 04: Ordnance Support Equipment											
-----											
	Ship Gun System Equipment										
119	Ship Gun Systems Equipment	A							5,277		U

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Line No	Item Nomenclature	Ident Code	FY 2016 Base + OCO Quantity Cost	FY 2017 Base Enactment Quantity Cost	FY 2017 OCO Enactment Quantity Cost	FY 2017 Total (Base + OCO) Quantity Cost	S e c
Ship Missile Systems Equipment							
120	Ship Missile Support Equipment	A	276,503	307,446		307,446	U
121	Tomahawk Support Equipment	A	71,245	67,062		67,062	U
FBM Support Equipment							
122	Strategic Missile Systems Equip	A	240,677	215,138		215,138	U
ASW Support Equipment							
123	SSN Combat Control Systems	A	96,040	130,715	14,000	144,715	U
124	ASW Support Equipment	A	30,189	26,431	10,000	36,431	U
Other Ordnance Support Equipment							
125	Explosive Ordnance Disposal Equip	B	22,623	11,821	80,434	92,255	U
126	Items Less Than \$5 Million	A	9,906	6,243		6,243	U
Other Expendable Ordnance							
127	Submarine Training Device Mods	A		46,746		46,746	U
128	Training Device Mods	A	99,707				U
129	Surface Training Equipment	A		87,714		87,714	U
Total Ordnance Support Equipment			852,190	905,507	104,434	1,009,941	
Budget Activity 05: Civil Engineering Support Equip							
Civil Engineering Support Equipment							
130	Passenger Carrying Vehicles	A	2,438	8,853		8,853	U
131	General Purpose Trucks	A	2,493	4,794		4,794	U

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Line No	Item Nomenclature	Ident Code	FY 2018 Base Request Quantity	Cost	FY 2018 June Amendment Base Quantity	Cost	FY 2018 Amendment Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
	Ship Missile Systems Equipment								
120	Ship Missile Support Equipment	A		272,359					U
121	Tomahawk Support Equipment	A		73,184					U
	FBM Support Equipment								
122	Strategic Missile Systems Equip	A		246,221					U
	ASW Support Equipment								
123	SSN Combat Control Systems	A		129,972					U
124	ASW Support Equipment	A		23,209					U
	Other Ordnance Support Equipment								
125	Explosive Ordnance Disposal Equip	B		15,596					U
126	Items Less Than \$5 Million	A		5,981					U
	Other Expendable Ordnance								
127	Submarine Training Device Mods	A		74,550					U
128	Training Device Mods	A							U
129	Surface Training Equipment	A		83,022					U
				-----		-----		-----	
	Total Ordnance Support Equipment			929,371					
	Budget Activity 05: Civil Engineering Support Equip								
	-----								
	Civil Engineering Support Equipment								
130	Passenger Carrying Vehicles	A		5,299					U
131	General Purpose Trucks	A		2,946					U

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Line No	Item Nomenclature	Ident Code	FY 2018 OCO Request Quantity	Cost	FY 2018 Amendment OCO Quantity	Cost	FY 2018 Total OCO Quantity	Cost	FY 2018 Grand Total Quantity	Cost	S e c
Ship Missile Systems Equipment											
120	Ship Missile Support Equipment	A		2,436				2,436		274,795	U
121	Tomahawk Support Equipment	A								73,184	U
FBM Support Equipment											
122	Strategic Missile Systems Equip	A								246,221	U
ASW Support Equipment											
123	SSN Combat Control Systems	A								129,972	U
124	ASW Support Equipment	A								23,209	U
Other Ordnance Support Equipment											
125	Explosive Ordnance Disposal Equip	B		31,970		28,400		60,370		75,966	U
126	Items Less Than \$5 Million	A								5,981	U
Other Expendable Ordnance											
127	Submarine Training Device Mods	A								74,550	U
128	Training Device Mods	A									U
129	Surface Training Equipment	A								83,022	U
Total Ordnance Support Equipment				34,406		28,400		62,806		992,177	
Budget Activity 05: Civil Engineering Support Equip											
-----											
Civil Engineering Support Equipment											
130	Passenger Carrying Vehicles	A								5,299	U
131	General Purpose Trucks	A		496				496		3,442	U

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Line No	Item Nomenclature	Ident Code	FY 2016 Base + OCO Quantity Cost	FY 2017 Base Enactment Quantity Cost	FY 2017 OCO Enactment Quantity Cost	FY 2017 Total (Base + OCO) Quantity Cost	S e c
132	Construction & Maintenance Equip	A	2,578	18,527		18,527	U
133	Fire Fighting Equipment	A	14,705	13,569	630	14,199	U
134	Tactical Vehicles	B	2,898	13,824		13,824	U
135	Amphibious Equipment	A	12,517	7,676		7,676	U
136	Pollution Control Equipment	A	3,018	2,321		2,321	U
137	Items Under \$5 Million	A	13,838	8,436		8,436	U
138	Physical Security Vehicles	A	1,186	1,095		1,095	U
	Total Civil Engineering Support Equip		55,671	79,095	630	79,725	
Budget Activity 06: Supply Support Equipment							
Supply Support Equipment							
139	Materials Handling Equipment	A	19,211				U
140	Supply Equipment	A		16,023		16,023	U
141	Other Supply Support Equipment	A	10,469				U
142	First Destination Transportation	A	5,908	5,115		5,115	U
143	Special Purpose Supply Systems	A	211,714	295,471		295,471	U
	Total Supply Support Equipment		247,302	316,609		316,609	
Budget Activity 07: Personnel & Command Support Equip							
Training Devices							
144	Training Support Equipment	A	7,468				U

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Line No	Item Nomenclature	Ident Code	FY 2018 Base Request Quantity	Cost	FY 2018 June Amendment Base Quantity	Cost	FY 2018 Amendment Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
132	Construction & Maintenance Equip	A		34,970					U
133	Fire Fighting Equipment	A		2,541					U
134	Tactical Vehicles	B		19,699					U
135	Amphibious Equipment	A		12,162					U
136	Pollution Control Equipment	A		2,748					U
137	Items Under \$5 Million	A		18,084					U
138	Physical Security Vehicles	A		1,170					U
	Total Civil Engineering Support Equip			99,619					
Budget Activity 06: Supply Support Equipment									
-----									
	Supply Support Equipment								
139	Materials Handling Equipment	A							U
140	Supply Equipment	A		21,797					U
141	Other Supply Support Equipment	A							U
142	First Destination Transportation	A		5,572					U
143	Special Purpose Supply Systems	A		482,916					U
	Total Supply Support Equipment			510,285					
Budget Activity 07: Personnel & Command Support Equip									
-----									
	Training Devices								
144	Training Support Equipment	A							U

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Line No	Item Nomenclature	Ident Code	FY 2018 OCO Request Quantity	Cost	FY 2018 Amendment OCO Quantity	Cost	FY 2018 Total OCO Quantity	Cost	FY 2018 Grand Total Quantity	Cost	S e c
132	Construction & Maintenance Equip	A							34,970		U
133	Fire Fighting Equipment	A		2,304			2,304		4,845		U
134	Tactical Vehicles	B		2,336			2,336		22,035		U
135	Amphibious Equipment	A							12,162		U
136	Pollution Control Equipment	A							2,748		U
137	Items Under \$5 Million	A							18,084		U
138	Physical Security Vehicles	A							1,170		U
	Total Civil Engineering Support Equip			5,136			5,136		104,755		
Budget Activity 06: Supply Support Equipment											
Supply Support Equipment											
139	Materials Handling Equipment	A									U
140	Supply Equipment	A		164			164		21,961		U
141	Other Supply Support Equipment	A									U
142	First Destination Transportation	A		420			420		5,992		U
143	Special Purpose Supply Systems	A							482,916		U
	Total Supply Support Equipment			584			584		510,869		
Budget Activity 07: Personnel & Command Support Equip											
Training Devices											
144	Training Support Equipment	A									U

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Line No	Item Nomenclature	Ident Code	FY 2016 Base + OCO Quantity Cost	FY 2017 Base Enactment Quantity Cost	FY 2017 OCO Enactment Quantity Cost	FY 2017 Total (Base + OCO) Quantity Cost	S e c
145	Training and Education Equipment	A		6,347		6,347	U
	Command Support Equipment						
146	Command Support Equipment	A	29,745	29,980	10,562	40,542	U
147	Education Support Equipment	A	3,180				U
148	Medical Support Equipment	A	32,790	11,959		11,959	U
150	Naval MIP Support Equipment	A	4,608	1,925		1,925	U
151	Operating Forces Support Equipment	A	6,607	4,777		4,777	U
152	C4ISR Equipment	A	9,929	9,073		9,073	U
153	Environmental Support Equipment	A	23,009	19,439		19,439	U
154	Physical Security Equipment	A	93,478	100,906	9,297	110,203	U
155	Enterprise Information Technology	A	95,094	66,200		66,200	U
	Other						
158	Cancelled Account Adjustments	A	17				U
159	Next Generation Enterprise Service	A	104,642	98,216		98,216	U
999	Classified Programs		33,439	9,915	1,660	11,575	U
			-----	-----	-----	-----	
	Total Personnel & Command Support Equip		444,006	358,737	21,519	380,256	

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Line No	Item Nomenclature	Ident Code	FY 2018 Base Request Quantity	Cost	FY 2018 June Amendment Base Quantity	Cost	FY 2018 Amendment Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
145	Training and Education Equipment	A		25,624					U
	Command Support Equipment								
146	Command Support Equipment	A		59,076					U
147	Education Support Equipment	A							U
148	Medical Support Equipment	A		4,383					U
150	Naval MIP Support Equipment	A		2,030					U
151	Operating Forces Support Equipment	A		7,500					U
152	C4ISR Equipment	A		4,010					U
153	Environmental Support Equipment	A		23,644					U
154	Physical Security Equipment	A		101,982					U
155	Enterprise Information Technology	A		19,789					U
	Other								
158	Cancelled Account Adjustments	A							U
159	Next Generation Enterprise Service	A		104,584					U
999	Classified Programs			23,707					U
				-----		-----		-----	
	Total Personnel & Command Support Equip			376,329					

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Line No	Item Nomenclature	Ident Code	FY 2018 OCO Request Quantity	Cost	FY 2018 Amendment OCO Quantity	Cost	FY 2018 Total OCO Quantity	Cost	FY 2018 Grand Total Quantity	Cost	S e c
145	Training and Education Equipment	A							25,624		U
	Command Support Equipment										
146	Command Support Equipment	A		21,650			21,650		80,726		U
147	Education Support Equipment	A									U
148	Medical Support Equipment	A							4,383		U
150	Naval MIP Support Equipment	A							2,030		U
151	Operating Forces Support Equipment	A		15,800			15,800		23,300		U
152	C4ISR Equipment	A							4,010		U
153	Environmental Support Equipment	A		1,000			1,000		24,644		U
154	Physical Security Equipment	A		15,890			15,890		117,872		U
155	Enterprise Information Technology	A							19,789		U
	Other										
158	Cancelled Account Adjustments	A									U
159	Next Generation Enterprise Service	A							104,584		U
999	Classified Programs			2,200			2,200		25,907		U
				-----			-----		-----		
	Total Personnel & Command Support Equip			56,540			56,540		432,869		

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Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation: 1810N Other Procurement, Navy

Line	Ident	FY 2016	FY 2017	FY 2017	FY 2017	S
No	Code	Base + OCO	Base	OCO	Total	e
-----	-----	Quantity Cost	Quantity Cost	Quantity Cost	(Base + OCO) Quantity Cost	c
-----	-----	-----	-----	-----	-----	-----
Budget Activity 08: Spares and Repair Parts						
-----						
Spares and Repair Parts						
160 Spares and Repair Parts	A	276,333	199,660		199,660	U
		-----	-----	-----	-----	
Total Spares and Repair Parts		276,333	199,660		199,660	
		-----	-----	-----	-----	
Total Other Procurement, Navy		6,585,466	6,308,919	251,083	6,560,002	

## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation: 1810N Other Procurement, Navy

Line		Ident	FY 2018		FY 2018		FY 2018		
No	Item Nomenclature	Code	Base	Request	June	Amendment	Base	Amendment	S
----	-----	-----	Quantity	Cost	Quantity	Cost	Quantity	Cost	e
----	-----	-----	-----	----	-----	----	-----	----	-
Budget Activity 08: Spares and Repair Parts									
-----									
Spares and Repair Parts									
160	Spares and Repair Parts	A		278,565					U
				-----		-----		-----	
	Total Spares and Repair Parts			278,565					
				-----		-----		-----	
	Total Other Procurement, Navy			8,277,789		-374,925			

## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation: 1810N Other Procurement, Navy

Line			FY 2018		FY 2018		FY 2018		FY 2018		S
No	Item Nomenclature	Ident	OCO	Request	Amendment	OCO	Total	OCO	Grand Total		e
----	-----	Code	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	c
----	-----	----	-----	----	-----	----	-----	----	-----	----	-
Budget Activity 08: Spares and Repair Parts											
-----											
Spares and Repair Parts											
160	Spares and Repair Parts	A		1,178			1,178		279,743		U
				-----			-----		-----		
	Total Spares and Repair Parts			1,178			1,178		279,743		
				-----			-----		-----		
	Total Other Procurement, Navy			220,059		31,500	251,559		8,154,423		

# UNCLASSIFIED

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2018 Navy										<b>Date:</b> October 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 16: Cryptologic Equipment							<b>P-1 Line Item Number / Title:</b> 3501 / Cryptologic Communications Equip					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A												
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	60.554	11.433	21.098	11.287	5.380	16.667	11.448	12.408	14.336	14.258	-	162.202
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	60.554	11.433	21.098	11.287	5.380	16.667	11.448	12.408	14.336	14.258	-	162.202
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>60.554</b>	<b>11.433</b>	<b>21.098</b>	<b>11.287</b>	<b>5.380</b>	<b>16.667</b>	<b>11.448</b>	<b>12.408</b>	<b>14.336</b>	<b>14.258</b>	<b>-</b>	<b>162.202</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Description:</b> AMENDED BUDGET REQUEST JUSTIFICATION: \$3.1 million OCO is required to address emergency warfighting readiness requirements. These funds support the Navy's Counter-Unmanned Aircraft Systems (C-UAS) efforts per Joint Rapid Acquisition Council (JRAC) approved Joint Urgent Operational Need (JUON) CC-0558 and is intended to provide additional Red Falcon / Cryptologic Carry-on Program (CCOP) systems for platforms deploying to United States Central Command area of responsibility. More details are available at higher classification.												
<p>[P5 / 1V045 Access Systems &amp; Subsystems]: Cryptologic Carry-On Equipment: The Cryptologic Carry-On Program (CCOP) procures state-of-the-art, commercial off-the-shelf signal acquisition equipment (hardware and software) in response to combatant commander requirements for a quick-reaction surface, subsurface, and airborne cryptologic carry-on capability. The equipment is procured according to the overall requirements detailed in the Shipboard Information Warfare/Cryptologic System Operational Requirements Document and specific execution year fleet requirements as defined by the Signals Of Interest (SOI) Integrated Product Team (IPT) and in concert with Shipboard Signals Exploitation Space (SSES) programs to ensure synergy and seamless transition to permanently installed SSES systems. The IPT meets several times a year and determines which SOIs/Targets on the SOI list need to be addressed. Due to a continually changing threat environment, detailed requirements are dynamic and equipment procured varies each year by quantity and type. Equipment suites can be configured for many targets and tasking. Target specific subsystems can either operate as stand-alone within cryptologic spaces or as an add-on to existing equipment. Hardware procurement includes: receivers, recorders, tactical computers and related peripherals, antennas, electronic-warfare support measures systems, precision geolocation equipment, advanced signal and search equipment including spectrum analyzers and associated portable special intelligence communications equipment. CCOP equipment is installed as an augment to cryptologic capabilities on subsurface, surface, and air platforms. There are approximately 124 cryptologic capable surface ships and shore sites in the current Navy inventory. Each of these are potential users of this carry-on equipment, as are subsurface and air platforms. The temporary installation of equipment is coordinated through fleet electronic support personnel; inventory allocation is managed by USFF. A primary system in inventory is the Carry On Radio Spectrum Analysis &amp; Intelligence Reporting (CORSAIR) system. Funds continue to procure CORSAIR core architecture system upgrades to provide additional affordable functionality to the combatant commands. Additional signal acquisition equipment to address specific combatant command requirements include such systems as Digital Receiver Technology (DRT), Hostile forces Integrated Targeting Service (HITS), Maritime Toxic Pen (MTP), TURBULENTWAVE/TURBULENTWIND/TURBULENTSAIL, BLUESTREAM servers, RED FALCON/VULCAN, STINGRAY, MUDCAT, Toxic Fog, Radio Frequency Distribution Unit (RFDU), TEAPARTY/TEALEAF, and Generic Area Limitations Environment (GALE)-Lite. This line also supports the procurement of STALLION hardware for CCOP team training.</p>												
<b>Justification:</b> AMENDED BUDGET REQUEST JUSTIFICATION: \$3.1 million OCO is required to address emergency warfighting readiness requirements. These funds support the Navy's Counter-Unmanned Aircraft Systems (C-UAS) efforts per Joint Rapid Acquisition Council (JRAC) approved Joint Urgent Operational Need (JUON) CC-0558 and is intended to provide additional Red Falcon / Cryptologic Carry-on Program (CCOP) systems for platforms deploying to United States Central Command area of responsibility. More details are available at higher classification.												

**UNCLASSIFIED**

Exhibit P-40, Budget Line Item Justification: PB 2018 Navy		Date: October 2017
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 16: Cryptologic Equipment		P-1 Line Item Number / Title: 3501 / Cryptologic Communications Equip
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>FY18 funds will continue to satisfy signals exploitation capability gaps as determined by the Cryptologic Carry-on Program (CCOP) Signals of Interest (SOI) Integrated Product Team (IPT). At this time the recommendations for procurements that are best suited to address identified gaps may include: Digital Receiver Technology (DRT), Hostile forces Integrated Targeting Service (HITS), Maritime Toxic Pen (MTP), TURBULENTWAVE/TURBULENTWIND/TURBULENTSAIL, BLUESTREAM servers, RED FALCON/VULCAN, STINGRAY, MUDCAT, Toxic Fog, Radio Frequency Distribution Unit (RFDU), TEAPARTY/TEALEAF, and Generic Area Limitations Environment (GALE)-Lite, BLACKBIRD AND QUICKSHOT as well as Adaptive Mission Packages. This line supports the procurement of STALLION hardware for CCOP team training.</p> <p>FY18 funds will provide for the timely analysis of data derived from maritime mobile Information Warfare (IW) operations. GSAL support is conducted by Signals Analysis Laboratories (SAL) co-located with Fleet Information Operations Centers (FIOC) at theater-level analysis and processing centers and by QuickLook/Nodes forward-based at fleet concentration areas. The GSAL program office equips the SALs with advanced signals analysis capabilities in order to accomplish the high order analysis that is required to effectively address SAL processing and exploitation requirements in support of both maritime tactical and national strategic IW objectives. Additionally, SALs are equipped with specialized capabilities to support FIOC maritime Signal Descriptor File (SDF) requirements. Funding will be used for the procurement of upgrades (GSAL LABLINK data handling subsystem) to integrate new technology to accommodate the highly technical analysis requirements attendant with a highly diverse and constantly changing electromagnetic environment, while providing connectivity and global reachback in support of analysis with collaborating military, national, and international partners via signal screening and processing tools resident in LABLINK.</p> <p>OCO: AMENDED BUDGET REQUEST JUSTIFICATION: \$3.1 million OCO is required to address emergency warfighting readiness requirements. These funds support the Navy's Counter-Unmanned Aircraft Systems (C-UAS) efforts per Joint Rapid Acquisition Council (JRAC) approved Joint Urgent Operational Need (JUON) CC-0558 and is intended to provide additional Red Falcon / Cryptologic Carry-on Program (CCOP) systems for platforms deploying to United States Central Command area of responsibility. More details are available at higher classification.</p> <p>FY18 Other Contingency Operations (OCO) funds to procure 11 Red Falcon Systems due to shortfall of systems available for platforms deploying to the United States Central Command area of responsibility (USCENTCOM AOR).</p>		



**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2018 Navy										<b>Date:</b> October 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 06: Other Ordnance Support Equipment							<b>P-1 Line Item Number / Title:</b> 5509 / Explosive Ordnance Disposal Equip					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> 0603654N, 0604654N, 0604653N				
<b>Line Item MDAP/MAIS Code:</b> N/A												
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	601.610	22.623	116.650	15.596	60.370	75.966	15.830	16.151	12.493	12.744	-	874.067
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	601.610	22.623	116.650	15.596	60.370	75.966	15.830	16.151	12.493	12.744	-	874.067
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>601.610</b>	<b>22.623</b>	<b>116.650</b>	<b>15.596</b>	<b>60.370</b>	<b>75.966</b>	<b>15.830</b>	<b>16.151</b>	<b>12.493</b>	<b>12.744</b>	<b>-</b>	<b>874.067</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	0.127	-	0.127	0.002	-	-	0.709	Continuing	Continuing
Flyaway Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<p><b>Description:</b></p> <p>AMENDED BUDGET REQUEST JUSTIFICATION: \$28.4M OCO is required to address emergency warfighting readiness requirements. FY2018 OCO funding supports continuation of JUONS CC-0558 Counter Unmanned Aerial Systems (C-UAS) through the procurement and upgrade of at least 75 Joint Counter Radio Controlled IED Electronic Warfare (JCREW) systems on multiple platforms, and includes production engineering to maintain capability against the evolving global UAS threats. Enhanced performance and additional systems will be required to maintain capability against the increasing enemy capabilities in theater. This is not a new start. More details are available at a higher classification.</p> <p>Explosive Ordnance Disposal (EOD) Equipment procures and manufactures Navy EOD required tools and equipment in support of both OCONUS and CONUS operations that allow the ability to detect, access, diagnose, render safe, exploit, and dispose threats to National Security. Current missions now require increased standoff distances and remote means to perform operational tasks due to the increased lethality of munitions and Weapons of Mass Destruction.</p> <p>The Expeditionary Exploitation Unit (EXU-1) provides technical exploitation of IEDs and conventional ordnance to provide time sensitive, technical intelligence, tactical and operational information to EOD warfighters and National level intelligence activities. This program procures tools and equipment in support of their mission to collect, evaluate, analyze, and interpret foreign material acquisition and its relationship to the EOD community.</p> <p>Counter Radio-Controlled Improvised Explosive Device (IED) Electronic Warfare (CREW) systems that disrupt enemy command and control radio frequency (RF) communications associated with IEDs is procured by this program. And, in support of JUONS CC-0558 Counter Unmanned Aerial System (C-UAS)Capabilities this program also supports the Navy effort to field reconfigured CREW dismounted systems with an initial, quick response, man-portable C-UAS capability.</p> <p>The Navy is responsible for the management and execution of the Joint Service Explosive Ordnance Disposal (EOD) unified procurement system as assigned by DOD Directive 5160.62.</p>												

# UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2018 Navy							Date: October 2017				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 06: Other Ordnance Support Equipment					P-1 Line Item Number / Title: 5509 / Explosive Ordnance Disposal Equip						
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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 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			- / 601.610	- / 22.623	- / 116.650	- / 15.596	- / 60.370	- / 75.966	
P-40	Total Gross/Weapon System Cost				- / 601.610	- / 22.623	- / 116.650	- / 15.596	- / 60.370	- / 75.966	
*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:  AMENDED BUDGET REQUEST JUSTIFICATION: \$28.4M OCO is required to address emergency warfighting readiness requirements. FY2018 OCO funding supports continuation of JUONS CC-0558 Counter Unmanned Aerial Systems (C-UAS) through the procurement and upgrade of at least 75 Joint Counter Radio Controlled IED Electronic Warfare (JCREW) systems on multiple platforms, and includes production engineering to maintain capability against the evolving global UAS threats. Enhanced performance and additional systems will be required to maintain capability against the increasing enemy capabilities in theater. This is not a new start. More details are available at a higher classification.  											

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2018 Navy		<b>Date:</b> October 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 06: Other Ordnance Support Equipment		<b>P-1 Line Item Number / Title:</b> 5509 / Explosive Ordnance Disposal Equip
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0603654N, 0604654N, 0604653N
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>FY 2018 OCO funding supports recapitalization/reset of legacy Counter Radio-Controlled Improvised Explosive Device (IED) Electronic Warfare (CREW) systems/equipment currently in service, providing electronic warfare jammer protection against radio-controlled improvised explosive devices. CREW systems disrupt enemy command and control radio frequency (RF) communications associated with IEDs. Systems are adaptively deployed across Naval Expeditionary Combat Command (NECC) and Naval Beach Group forces as required for Operation Freedom's Sentinel (OFS).</p> <p>FY18 OCO funding supports the procurement and upgrade of JCREW C-UAS systems and production engineering support of JCREW C-UAS systems to maintain capability against the evolving global UAS threat in support of JUON CC-0558. Enhanced performance and additional systems will be required to maintain capability against the evolving and growing UAS threat.</p>		

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DEPARTMENT OF THE NAVY  
FISCAL YEAR (FY) 2018  
OCO AMENDMENT



JUSTIFICATION OF ESTIMATES  
NOVEMBER 2017

Procurement of Ammunition, Navy & Marine Corps (PANMC)

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## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation -----	FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----
Procurement of Ammo, Navy & MC	771,265	633,678	168,480	802,158
Total Department of the Navy	771,265	633,678	168,480	802,158

## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation -----	FY 2018 Base Request -----	FY 2018 June Amendment Base -----	FY 2018 Amendment Emergency -----
Procurement of Ammo, Navy & MC	792,345		
Total Department of the Navy	792,345		



## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation -----	FY 2018 OCO Request -----	FY 2018 Amendment OCO -----	FY 2018 Total OCO -----	FY 2018 Grand Total -----
Procurement of Ammo, Navy & MC	225,587	10,853	236,440	1,028,785
Total Department of the Navy	225,587	10,853	236,440	1,028,785

## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation: Procurement of Ammo, Navy &amp; MC

Budget Activity -----	FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----
01. Proc Ammo, Navy	557,272	464,402	160,403	624,805
02. Proc Ammo, MC	213,993	169,276	8,077	177,353
Total Procurement of Ammo, Navy & MC	771,265	633,678	168,480	802,158

## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation: Procurement of Ammo, Navy &amp; MC

Budget Activity -----	FY 2018 Base Request -----	FY 2018 June Amendment Base -----	FY 2018 Amendment Emergency -----
01. Proc Ammo, Navy	497,689		
02. Proc Ammo, MC	294,656		
Total Procurement of Ammo, Navy & MC	792,345		

## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation: Procurement of Ammo, Navy &amp; MC

Budget Activity -----	FY 2018 OCO Request -----	FY 2018 Amendment OCO -----	FY 2018 Total OCO -----	FY 2018 Grand Total -----
01. Proc Ammo, Navy	215,769	5,900	221,669	719,358
02. Proc Ammo, MC	9,818	4,953	14,771	309,427
Total Procurement of Ammo, Navy & MC	225,587	10,853	236,440	1,028,785

## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation: 1508N Procurement of Ammo, Navy &amp; MC

Line No	Item Nomenclature	Ident Code	FY 2016 Base + OCO Quantity Cost	FY 2017 Base Enactment Quantity Cost	FY 2017 OCO Enactment Quantity Cost	FY 2017 Total (Base + OCO) Quantity Cost	S e c
Budget Activity 01: Proc Ammo, Navy							
-----							
Navy Ammunition							
1	General Purpose Bombs	A	101,895	91,659	98,366	190,025	U
2	JDAM	B					U
3	Airborne Rockets, All Types	A	82,497	63,381	50,360	113,741	U
4	Machine Gun Ammunition	A	19,802	8,152		8,152	U
5	Practice Bombs	A	39,365	41,873		41,873	U
6	Cartridges & Cart Actuated Devices	A	47,089	48,635		48,635	U
7	Air Expendable Countermeasures	A	56,933	56,609	7,060	63,669	U
8	JATOS	A	2,806	2,735		2,735	U
9	LRLAP 155MM Long Range Land Attack Projectile	A	4,540				U
10	5 Inch/54 Gun Ammunition	A	41,194	17,620		17,620	U
11	Intermediate Caliber Gun Ammunition	A	33,715	28,096		28,096	U
12	Other Ship Gun Ammunition	A	50,157	46,209		46,209	U
13	Small Arms & Landing Party Ammo	A	55,336	46,727		46,727	U
14	Pyrotechnic and Demolition	A	12,798	9,806	1,122	10,928	U
15	Cancelled Account Adjustments (87)	A	2				U
16	Ammunition Less Than \$5 Million	A	9,143	2,900	3,495	6,395	U
Total Proc Ammo, Navy			557,272	464,402	160,403	624,805	

P-118AMD: FY 2018 President's Budget Amendment (Published Version), as of November 2, 2017 at 16:33:50

## UNCLASSIFIED

Department of the Navy  
FY 2018 President's Budget Amendment  
Exhibit P-1 FY 2018 President's Budget Amendment  
Total Obligational Authority  
(Dollars in Thousands)

02 Nov 2017

Appropriation: 1508N Procurement of Ammo, Navy &amp; MC

Line No	Item Nomenclature	Ident Code	FY 2018 Base Request Quantity	Cost	FY 2018 June Amendment Base Quantity	Cost	FY 2018 Amendment Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
Budget Activity 01: Proc Ammo, Navy									
-----									
Navy Ammunition									
1	General Purpose Bombs	A		34,882					U
2	JDAM	B	2492	57,343					U
3	Airborne Rockets, All Types	A		79,318					U
4	Machine Gun Ammunition	A		14,112					U
5	Practice Bombs	A		47,027					U
6	Cartridges & Cart Actuated Devices	A		57,718					U
7	Air Expendable Countermeasures	A		65,908					U
8	JATOS	A		2,895					U
9	LRLAP 155MM Long Range Land Attack Projectile	A							U
10	5 Inch/54 Gun Ammunition	A		22,112					U
11	Intermediate Caliber Gun Ammunition	A		12,804					U
12	Other Ship Gun Ammunition	A		41,594					U
13	Small Arms & Landing Party Ammo	A		49,401					U
14	Pyrotechnic and Demolition	A		9,495					U
15	Cancelled Account Adjustments (87)	A							U
16	Ammunition Less Than \$5 Million	A		3,080					U
			-----		-----		-----		
Total Proc Ammo, Navy				497,689					

P-118AMD: FY 2018 President's Budget Amendment (Published Version), as of November 2, 2017 at 16:33:50

## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation: 1508N Procurement of Ammo, Navy &amp; MC

Line No	Item Nomenclature	Ident Code	FY 2018 OCO Request Quantity	Cost	FY 2018 Amendment OCO Quantity	Cost	FY 2018 Total OCO Quantity	Cost	FY 2018 Grand Total Quantity	Cost	S e c
Budget Activity 01: Proc Ammo, Navy											
-----											
Navy Ammunition											
1	General Purpose Bombs	A		74,021			74,021		108,903		U
2	JDAM	B	4717	106,941			4717	106,941	7209	164,284	U
3	Airborne Rockets, All Types	A		1,184			1,184		80,502		U
4	Machine Gun Ammunition	A							14,112		U
5	Practice Bombs	A							47,027		U
6	Cartridges & Cart Actuated Devices	A							57,718		U
7	Air Expendable Countermeasures	A		15,700			15,700		81,608		U
8	JATOS	A		540			540		3,435		U
9	LRLAP 155MM Long Range Land Attack Projectile	A									U
10	5 Inch/54 Gun Ammunition	A							22,112		U
11	Intermediate Caliber Gun Ammunition	A							12,804		U
12	Other Ship Gun Ammunition	A		13,789	5,900		19,689		61,283		U
13	Small Arms & Landing Party Ammo	A		1,963			1,963		51,364		U
14	Pyrotechnic and Demolition	A		765			765		10,260		U
15	Cancelled Account Adjustments (87)	A									U
16	Ammunition Less Than \$5 Million	A		866			866		3,946		U
Total Proc Ammo, Navy				215,769	5,900		221,669		719,358		

P-118AMD: FY 2018 President's Budget Amendment (Published Version), as of November 2, 2017 at 16:33:50

## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation: 1508N Procurement of Ammo, Navy &amp; MC

Line No	Item Nomenclature	Ident Code	FY 2016 Base + OCO Quantity Cost	FY 2017 Base Enactment Quantity Cost	FY 2017 OCO Enactment Quantity Cost	FY 2017 Total (Base + OCO) Quantity Cost	S e c
Budget Activity 02: Proc Ammo, MC							
-----							
Marine Corps Ammunition							
17	Small Arms Ammunition		24,575	27,022	4,805	31,827	U
18	40 Mm, All Types	A		13,188	481	13,669	U
19	60mm, All Types	A	1,849	992	909	1,901	U
20	Mortars	A					U
21	81mm, All Types	A	1,000				U
22	120mm, All Types	A	4,826	10,427		10,427	U
23	Direct Support Munitions	A					U
24	Infantry Weapons Ammunition	A					U
25	Grenades, All Types	A	1,390				U
26	Rockets, All Types	A	18,960	12,436	469	12,905	U
27	Artillery, All Types	A	101,908	64,906	1,196	66,102	U
28	Demolition Munitions, All Types	A	518	1,700		1,700	U
29	Combat Support Munitions	A					U
30	Fuze, All Types	A	31,268	20,640	217	20,857	U
31	Non Lethals	B	3,868				U
32	Ammo Modernization	A	13,322	13,396		13,396	U
33	Artillery Munitions	A					U

P-118AMD: FY 2018 President's Budget Amendment (Published Version), as of November 2, 2017 at 16:33:50



## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation: 1508N Procurement of Ammo, Navy &amp; MC

Line No	Item Nomenclature	Ident Code	FY 2018 Base Request Quantity	Cost	FY 2018 June Amendment Base Quantity	Cost	FY 2018 Amendment Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
Budget Activity 02: Proc Ammo, MC									
-----									
Marine Corps Ammunition									
17	Small Arms Ammunition								U
18	40 Mm, All Types	A							U
19	60mm, All Types	A							U
20	Mortars	A		24,118					U
21	81mm, All Types	A							U
22	120mm, All Types	A							U
23	Direct Support Munitions	A		64,045					U
24	Infantry Weapons Ammunition	A		91,456					U
25	Grenades, All Types	A							U
26	Rockets, All Types	A							U
27	Artillery, All Types	A							U
28	Demolition Munitions, All Types	A							U
29	Combat Support Munitions	A		11,788					U
30	Fuze, All Types	A							U
31	Non Lethals	B							U
32	Ammo Modernization	A		17,862					U
33	Artillery Munitions	A		79,427					U

P-118AMD: FY 2018 President's Budget Amendment (Published Version), as of November 2, 2017 at 16:33:50

## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation: 1508N Procurement of Ammo, Navy &amp; MC

Line No	Item Nomenclature	Ident Code	FY 2018 OCO Request Quantity	Cost	FY 2018 Amendment OCO Quantity	Cost	FY 2018 Total OCO Quantity	Cost	FY 2018 Grand Total Quantity	Cost	S e c
Budget Activity 02: Proc Ammo, MC											
-----											
Marine Corps Ammunition											
17	Small Arms Ammunition										U
18	40 Mm, All Types	A									U
19	60mm, All Types	A									U
20	Mortars	A		1,290			1,290		25,408		U
21	81mm, All Types	A									U
22	120mm, All Types	A									U
23	Direct Support Munitions	A		1,355			1,355		65,400		U
24	Infantry Weapons Ammunition	A		1,854			1,854		93,310		U
25	Grenades, All Types	A									U
26	Rockets, All Types	A									U
27	Artillery, All Types	A									U
28	Demolition Munitions, All Types	A									U
29	Combat Support Munitions	A							11,788		U
30	Fuze, All Types	A									U
31	Non Lethals	B									U
32	Ammo Modernization	A							17,862		U
33	Artillery Munitions	A		5,319		4,953	10,272		89,699		U

P-118AMD: FY 2018 President's Budget Amendment (Published Version), as of November 2, 2017 at 16:33:50

## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation: 1508N Procurement of Ammo, Navy &amp; MC

Line No	Item Nomenclature	Ident Code	FY 2016 Base + OCO Quantity Cost	FY 2017 Base Enactment Quantity Cost	FY 2017 OCO Enactment Quantity Cost	FY 2017 Total (Base + OCO) Quantity Cost	S e c
34	Items Less Than \$5 Million	A	10,509	4,569		4,569	U
			-----	-----	-----	-----	
	Total Proc Ammo, MC		213,993	169,276	8,077	177,353	
			-----	-----	-----	-----	
	Total Procurement of Ammo, Navy & MC		771,265	633,678	168,480	802,158	

## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation: 1508N Procurement of Ammo, Navy &amp; MC

Line No	Item Nomenclature	Ident Code	FY 2018 Base Request Quantity	Cost	FY 2018 June Amendment Base Quantity	Cost	FY 2018 Amendment Emergency Quantity	Cost	S e c
----	-----	----	-----	----	-----	----	-----	----	-
34	Items Less Than \$5 Million	A		5,960					U
			-----		-----		-----		
	Total Proc Ammo, MC			294,656					
			-----		-----		-----		
	Total Procurement of Ammo, Navy & MC			792,345					

## UNCLASSIFIED

Department of the Navy  
 FY 2018 President's Budget Amendment  
 Exhibit P-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation: 1508N Procurement of Ammo, Navy &amp; MC

Line No	Item Nomenclature	Ident Code	FY 2018 OCO Request Quantity	Cost	FY 2018 Amendment OCO Quantity	Cost	FY 2018 Total OCO Quantity	Cost	FY 2018 Grand Total Quantity	Cost	S e c
34	Items Less Than \$5 Million	A							5,960		U
	Total Proc Ammo, MC			9,818		4,953		14,771		309,427	
	Total Procurement of Ammo, Navy & MC			225,587		10,853		236,440		1,028,785	

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2018 Navy										<b>Date:</b> October 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 01: Navy Ammunition							<b>P-1 Line Item Number / Title:</b> 0270 / Other Ship Gun Ammunition					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> 000												
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	165.139	50.157	39.009	41.594	19.689	61.283	42.695	41.819	42.674	43.534	-	486.310
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	165.139	50.157	39.009	41.594	19.689	61.283	42.695	41.819	42.674	43.534	-	486.310
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>165.139</b>	<b>50.157</b>	<b>39.009</b>	<b>41.594</b>	<b>19.689</b>	<b>61.283</b>	<b>42.695</b>	<b>41.819</b>	<b>42.674</b>	<b>43.534</b>	<b>-</b>	<b>486.310</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Description:</b>												
<p>AMENDED BUDGET REQUEST JUSTIFICATION: \$5.9 million OCO is required to address emergency warfighting readiness requirements. Funding supports procurement of vital service common standoff munitions including Javelin missiles, mortars and other anti-armored vehicle rounds expended by Naval Special Warfare (NSW) in combat operations and is required to properly support US Navy SEAL Team missions. Expenditures of NSW stand-off and anti-armored vehicle weapons have significantly increased in the past year due to heavy sustained Counter Terrorism (CT) and counter-ISIS operations. The NSW munitions inventory are required to support combat operation in theater and related pre-deployment training . These systems deliver a critical force protection capability, and provide responsive fires for US Navy SEAL Teams deployed in combat theaters and critical areas of operations. This request was included in the OCO section of the Navy's FY2018 Unfunded Priorities List sent to Congress on 30 May 17.</p> <p>Program provides Other Ship Gun Ammunition which consists of medium caliber types (20MM, 25MM, 30MM, 40MM). This supports Navy ships, and active and reserve ashore warfare forces including Naval Expeditionary Combat Command (NECC), Mobile Security Forces (MSF), fleet combat readiness groups, inshore undersea warfare groups and several other type of operational units. Program includes support for emergent anti-terrorism/force protection and homeland defense requirements.</p> <p>This program also supports Naval Special Warfare (NSW) service common munitions which are required to provide US Navy SEAL teams, NSW small tactical units and task groups and Special Boat Teams with a fire power advantage, area target engagement, standoff and extended range capability, as well as an anti-armor capability. This includes medium caliber mortars and stand-off weapons systems such as 40MM, 60MM and 81MM and Javelin. These munitions provide NSW an essential force protection capability and increases the combat power of NSW tactical elements.</p>												
<b>Secondary Distribution</b>		<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>		
Navy Active	Quantity	-	-	-	-	-	-	-	-	-	-	
	Total Obligation Authority	50.100	38.956	41.538	19.689	61.227	42.638	41.764	42.618	43.477		
Navy Reserve	Quantity	-	-	-	-	-	-	-	-	-	-	
	Total Obligation Authority	0.057	0.053	0.056	-	0.056	0.057	0.055	0.056	0.057		
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	
	<b>Total Obligation Authority</b>	<b>50.157</b>	<b>39.009</b>	<b>41.594</b>	<b>19.689</b>	<b>61.283</b>	<b>42.695</b>	<b>41.819</b>	<b>42.674</b>	<b>43.534</b>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2018 Navy								<b>Date:</b> October 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 01: Navy Ammunition						<b>P-1 Line Item Number / Title:</b> 0270 / Other Ship Gun Ammunition				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> 000										
<b>Exhibits Schedule</b>					<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
<b>Exhibit Type</b>	<b>Title*</b>	<b>Subexhibits</b>	<b>ID CD</b>	<b>MDAP/MAIS Code</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>
P-5	1 / Integrated Warfare Systems	P-5a, P-21			- / 153.684	- / 41.725	- / 35.242	- / 37.687	- / 0.000	- / 37.687
P-5	2 / Naval Special Warfare	P-5a			- / 11.455	- / 8.432	- / 3.767	- / 3.907	- / 19.689	- / 23.596
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 165.139</b>	<b>- / 50.157</b>	<b>- / 39.009</b>	<b>- / 41.594</b>	<b>- / 19.689</b>	<b>- / 61.283</b>
*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.										
<p><b>Justification:</b>            AMENDED BUDGET REQUEST JUSTIFICATION: \$5.9 million OCO is required to address emergency warfighting readiness requirements. Funding supports procurement of vital service common standoff munitions including Javelin missiles, mortars and other anti-armored vehicle rounds expended by Naval Special Warfare (NSW) in combat operations and is required to properly support US Navy SEAL Team missions. Expenditures of NSW stand-off and anti-armored vehicle weapons have significantly increased in the past year due to heavy sustained Counter Terrorism (CT) and counter-ISIS operations. The NSW munitions inventory are required to support combat operation in theater and related pre-deployment training . These systems deliver a critical force protection capability, and provide responsive fires for US Navy SEAL Teams deployed in combat theaters and critical areas of operations. This request was included in the OCO section of the Navy's FY2018 Unfunded Priorities List sent to Congress on 30 May 17.</p> <p>FY 2018 baseline funding procures 20MM ammunition used for ship defense in MK15 Close-In Weapon System, 25MM ammunition used for FAC/FIAC defense in MK38 MOD 2 Machine Gun System on all platforms other than LPD &amp; LCS, and 30MM ammunition used for FAC/FIAC defense in MK46 MOD 2 Gun Weapon System on LPD and LCS. Baseline funding also provides Production Engineering and Gauge requirements for 20MM, 25MM, and 30MM ammunition.</p> <p>FY 2018 baseline funding procures Naval Special Warfare (NSW) low velocity 40MM grenades for hand held grenade launchers, high velocity, linked 40MM grenades for automatic grenade launchers,and components. Baseline program funds are also necessary for production engineering as required by DoD and Navy safety and acquisition regulations.</p> <p>OCO:            AMENDED BUDGET REQUEST JUSTIFICATION: \$5.9 million OCO is required to address emergency warfighting readiness requirements. Funding supports procurement of vital service common standoff munitions including Javelin missiles, mortars and other anti-armored vehicle rounds expended by Naval Special Warfare (NSW) in combat operations and is required to properly support US Navy SEAL Team missions. Expenditures of NSW stand-off and anti-armored vehicle weapons have significantly increased in the past year due to heavy sustained Counter Terrorism (CT) and counter-ISIS operations. The NSW munitions inventory are required to support combat operation in theater and related pre-deployment training . These systems deliver a critical force protection capability, and provide responsive fires for US Navy SEAL Teams deployed in combat theaters and critical areas of operations. This request was included in the OCO section of the Navy's FY2018 Unfunded Priorities List sent to Congress on 30 May 17.</p> <p>FY 2018 Overseas Contingency Operations (OCO) funding is required to replenish service common munitions expended by Naval Special Warfare (NSW) in combat operations in theater and pre-deployment training in support of Operation Inherent Resolve (OIR). A significant portion of the NSW inventory of stand-off and anti-armored vehicle weapons were depleted in order to meet urgent combat operation requirements in theater. These systems deliver a critical force protection capability and the ability to provide responsive fire for US Navy SEAL Teams deployed in critical areas of operation.</p>										



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2018 Navy										<b>Date:</b> October 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 01: Marine Corps Ammunition							<b>P-1 Line Item Number / Title:</b> 1650 / Artillery Munitions					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A												
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	0.000	0.000	79.427	10.272	89.699	81.182	131.846	142.848	148.514	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	0.000	0.000	79.427	10.272	89.699	81.182	131.846	142.848	148.514	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>79.427</b>	<b>10.272</b>	<b>89.699</b>	<b>81.182</b>	<b>131.846</b>	<b>142.848</b>	<b>148.514</b>	<b>Continuing</b>	<b>Continuing</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**  
FY18 AMENDED OCO BUDGET REQUEST JUSTIFICATION: \$4.953M supports the requirement to procure DA58, Projectile 155MM Precision Guided M982A1 (47qty). This is replenishment of munitions expended during Operation Inherent Resolve.

This funding line is not a new start. Beginning in FY18 this funding line represents a consolidation of ammunition line items by functional capability.

The family of artillery cartridges includes all 155mm artillery ammunition components. The 155mm artillery components are fired from M777 howitzers, and include: primer, propellant, projectile, and fuze. High explosive artillery ammunition is used against personnel, trucks, electronic surveillance and target acquisition devices, supply points, command and control and communications installations, and mechanized and armored forces. Precision-guided artillery provides accurate, first round fire-for-effect capability, and can achieve reduced collateral damage. Illumination cartridges are used to illuminate the battlefield with light either in visual or near Infrared Spectrum. Smoke cartridges are used to provide obscuration on the battlefield and to mark locations. Included are artillery fuzes such as; point detonating, multi-option, electronic time and precision guided.

Funds prior to FY18 are contained in BLI's 1473 and 1625.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2018 Navy								<b>Date:</b> October 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1508N: Procurement of Ammo, Navy & MC / BA 02: Proc Ammo, MC / BSA 01: Marine Corps Ammunition						<b>P-1 Line Item Number / Title:</b> 1650 / Artillery Munitions				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A										
<b>Exhibits Schedule</b>					<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
<b>Exhibit Type</b>	<b>Title*</b>	<b>Subexhibits</b>	<b>ID CD</b>	<b>MDAP/MAIS Code</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>
P-40a	Artillery, All Types				- / 0.000	- / -	- / -	- / 59.887	- / 9.486	- / 69.373
P-5	3 / Fuze, All Types	P-5a			- / 0.000	- / 0.000	- / 0.000	- / 19.540	- / 0.786	- / 20.326
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 0.000</b>	<b>- / 0.000</b>	<b>- / 0.000</b>	<b>- / 79.427</b>	<b>- / 10.272</b>	<b>- / 89.699</b>
<p>*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>										
<p><b>Justification:</b>  FY18 AMENDED OCO BUDGET REQUEST JUSTIFICATION: \$4.953M supports the requirement to procure DA58, Projectile 155MM Precision Guided M982A1 (47qty). This is replenishment of munitions expended during Operation Inherent Resolve.</p> <p>FY 2018 Baseline Appropriation Request: Funding will support the procurement of 155mm High Explosive (HE) M795 with TNT (DODIC D529) in place of 155mm HE M795 with IMX-101 (DODIC DA54) in FY18. The new 155mm HE Training Projectile M1122 (DA51) will be procured as well. The increase from FY17 to FY18 of \$19.9M is a result of an increase in training requirements for the 155mm High Explosive (TNT) and the 155mm Practice Projectile artillery ammunition.</p> <p>FY 2018 baseline funding will also support the procurement of the Precision Guidance Kit (PGK). This technology provides a first-of-its-kind "near-precision" capability. PGK contains a Global Positioning System (GPS) guidance kit with fuzing functions and an integrated GPS receiver to correct the inherent errors associated with ballistic firing solutions. The PGK capability is essential to providing commanders the ability to engage assigned targets while minimizing collateral damage and reducing the number of artillery projectiles required to attack targets.</p> <p>This line item includes funding in support of all artillery ammunition and fuze programs.</p> <p>OCO:  FY18 AMENDED OCO BUDGET REQUEST JUSTIFICATION: \$4.953M supports the requirement to procure DA58, Projectile 155MM Precision Guided M982A1 (47qty). This is replenishment of munitions expended during Operation Inherent Resolve.  FY 2018 OCO funding will be used to reset munitions expended in support of Operation Freedom's Sentinel (OFS).</p>										

DEPARTMENT OF THE NAVY  
FISCAL YEAR (FY) 2018  
OCO AMENDMENT



JUSTIFICATION OF ESTIMATES  
NOVEMBER 2017

Research, Development, Test & Evaluation, Navy (RD TEN)

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## UNCLASSIFIED

Department of Defense  
 FY 2018 President's Budget Amendment  
 Exhibit R-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation -----	FY 2016 Base + OCO -----	FY 2017 Base Enactment -----	FY 2017 OCO Enactment -----	FY 2017 Total (Base + OCO) -----
Research, Development, Test & Eval, Navy	18,333,041	17,208,841	326,537	17,535,378
Total Research, Development, Test & Evaluation	18,333,041	17,208,841	326,537	17,535,378

## UNCLASSIFIED

Department of Defense  
 FY 2018 President's Budget Amendment  
 Exhibit R-1 FY 2018 President's Budget Amendment  
 Total Obligational Authority  
 (Dollars in Thousands)

02 Nov 2017

Appropriation -----	FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total
-----	-----	-----	-----	-----	-----	-----	-----
Research, Development, Test & Eval, Navy	17,675,035	-25,000	60,000	130,365	37,200	167,565	17,877,600
Total Research, Development, Test & Evaluation	17,675,035	-25,000	60,000	130,365	37,200	167,565	17,877,600

## UNCLASSIFIED

Department of Defense  
FY 2018 President's Budget Amendment  
Exhibit R-1 FY 2018 President's Budget Amendment  
Total Obligational Authority  
(Dollars in Thousands)

02 Nov 2017

Summary Recap of Budget Activities -----	FY 2016 Base + OCO	FY 2017 Base Enactment	FY 2017 OCO Enactment	FY 2017 Total (Base + OCO)
-----	-----	-----	-----	-----
Basic Research	648,642	562,939		562,939
Applied Research	951,575	979,735		979,735
Advanced Technology Development	680,933	823,643		823,643
Advanced Component Development & Prototypes	4,929,981	4,537,871	93,297	4,631,168
System Development & Demonstration	6,236,999	5,754,995	4,800	5,759,795
Management Support	1,286,493	866,973	52,300	919,273
Operational Systems Development	3,598,418	3,682,685	176,140	3,858,825
Total Research, Development, Test & Evaluation	18,333,041	17,208,841	326,537	17,535,378
 Summary Recap of FYDP Programs -----				
Strategic Forces	162,023	191,387		191,387
General Purpose Forces	1,328,376	1,393,323	47,514	1,440,837
Intelligence and Communications	818,572	630,387		630,387
Research and Development	14,468,006	13,478,803	150,397	13,629,200
Central Supply and Maintenance	27,563	41,481		41,481
Administration and Associated Activities	569			
Space				
Classified Programs	1,527,932	1,473,460	128,626	1,602,086
Total Research, Development, Test & Evaluation	18,333,041	17,208,841	326,537	17,535,378

## UNCLASSIFIED

Department of Defense  
FY 2018 President's Budget Amendment  
Exhibit R-1 FY 2018 President's Budget Amendment  
Total Obligational Authority  
(Dollars in Thousands)

02 Nov 2017

Summary Recap of Budget Activities	FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total
-----							
Basic Research	595,901						595,901
Applied Research	886,079						886,079
Advanced Technology Development	686,342						686,342
Advanced Component Development & Prototypes	4,218,714	-25,000		27,710	31,800	59,510	4,253,224
System Development & Demonstration	6,362,102				5,400	5,400	6,367,502
Management Support	945,757						945,757
Operational Systems Development	3,980,140		60,000	102,655		102,655	4,142,795
Total Research, Development, Test & Evaluation	17,675,035	-25,000	60,000	130,365	37,200	167,565	17,877,600
Summary Recap of FYDP Programs							
-----							
Strategic Forces	201,735						201,735
General Purpose Forces	1,675,797			12,800		12,800	1,688,597
Intelligence and Communications	751,779						751,779
Research and Development	13,589,349	-25,000		27,710	37,200	64,910	13,629,259
Central Supply and Maintenance	43,035						43,035
Administration and Associated Activities	1,749						1,749
Space	47,244						47,244
Classified Programs	1,364,347		60,000	89,855		89,855	1,514,202
Total Research, Development, Test & Evaluation	17,675,035	-25,000	60,000	130,365	37,200	167,565	17,877,600

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Total Obligational Authority  
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Summary Recap of Budget Activities -----	FY 2016 Base + OCO	FY 2017 Base Enactment	FY 2017 OCO Enactment	FY 2017 Total (Base + OCO)
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Advanced Component Development & Prototypes	4,929,981	4,537,871	93,297	4,631,168
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Applied Research	886,079						886,079
Advanced Technology Development	686,342						686,342
Advanced Component Development & Prototypes	4,218,714	-25,000		27,710	31,800	59,510	4,253,224
System Development & Demonstration	6,362,102				5,400	5,400	6,367,502
Management Support	945,757						945,757
Operational Systems Development	3,980,140		60,000	102,655		102,655	4,142,795
Total Research, Development, Test & Evaluation	17,675,035	-25,000	60,000	130,365	37,200	167,565	17,877,600
Summary Recap of FYDP Programs							
-----							
Strategic Forces	201,735						201,735
General Purpose Forces	1,675,797			12,800		12,800	1,688,597
Intelligence and Communications	751,779						751,779
Research and Development	13,589,349	-25,000		27,710	37,200	64,910	13,629,259
Central Supply and Maintenance	43,035						43,035
Administration and Associated Activities	1,749						1,749
Space	47,244						47,244
Classified Programs	1,364,347		60,000	89,855		89,855	1,514,202
Total Research, Development, Test & Evaluation	17,675,035	-25,000	60,000	130,365	37,200	167,565	17,877,600

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02 Nov 2017

Appropriation: 1319N Research, Development, Test &amp; Eval, Navy

Line No	Program Element Number	Item	Act	FY 2016 Base + OCO	FY 2017 Base Enactment	FY 2017 OCO Enactment	FY 2017 Total (Base + OCO)	Se
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1	0601103N	University Research Initiatives	01	140,998	121,714		121,714	U
2	0601152N	In-House Laboratory Independent Research	01	18,978	18,508		18,508	U
3	0601153N	Defense Research Sciences	01	488,666	422,717		422,717	U
		Basic Research		648,642	562,939		562,939	
4	0602114N	Power Projection Applied Research	02	88,940	61,244		61,244	U
5	0602123N	Force Protection Applied Research	02	174,447	201,712		201,712	U
6	0602131M	Marine Corps Landing Force Technology	02	50,164	69,754		69,754	U
7	0602235N	Common Picture Applied Research	02	42,973	41,176		41,176	U
8	0602236N	Warfighter Sustainment Applied Research	02	44,092	50,459		50,459	U
9	0602271N	Electromagnetic Systems Applied Research	02	116,362	120,725		120,725	U
10	0602435N	Ocean Warfighting Environment Applied Research	02	69,703	81,618		81,618	U
11	0602651M	Joint Non-Lethal Weapons Applied Research	02	5,956	6,307		6,307	U
12	0602747N	Undersea Warfare Applied Research	02	151,844	126,279		126,279	U
13	0602750N	Future Naval Capabilities Applied Research	02	172,511	156,970		156,970	U
14	0602782N	Mine and Expeditionary Warfare Applied Research	02	34,583	33,916		33,916	U
15	0602792N	Innovative Naval Prototypes (INP) Applied Research	02					U

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02 Nov 2017

Appropriation: 1319N Research, Development, Test &amp; Eval, Navy

Line No	Program Element Number	Item	Act	FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total	Se
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1	0601103N	University Research Initiatives	01	118,130						118,130	U
2	0601152N	In-House Laboratory Independent Research	01	19,438						19,438	U
3	0601153N	Defense Research Sciences	01	458,333						458,333	U
		Basic Research		595,901						595,901	
4	0602114N	Power Projection Applied Research	02	13,553						13,553	U
5	0602123N	Force Protection Applied Research	02	125,557						125,557	U
6	0602131M	Marine Corps Landing Force Technology	02	53,936						53,936	U
7	0602235N	Common Picture Applied Research	02	36,450						36,450	U
8	0602236N	Warfighter Sustainment Applied Research	02	48,649						48,649	U
9	0602271N	Electromagnetic Systems Applied Research	02	79,598						79,598	U
10	0602435N	Ocean Warfighting Environment Applied Research	02	42,411						42,411	U
11	0602651M	Joint Non-Lethal Weapons Applied Research	02	6,425						6,425	U
12	0602747N	Undersea Warfare Applied Research	02	56,094						56,094	U
13	0602750N	Future Naval Capabilities Applied Research	02	156,805						156,805	U
14	0602782N	Mine and Expeditionary Warfare Applied Research	02	32,733						32,733	U
15	0602792N	Innovative Naval Prototypes (INP) Applied Research	02	171,146						171,146	U

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Appropriation: 1319N Research, Development, Test &amp; Eval, Navy

Line No	Program Element Number	Item	Act	FY 2016 Base + OCO	FY 2017 Base Enactment	FY 2017 OCO Enactment	FY 2017 Total (Base + OCO)	S e c
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16	0602861N	Science and Technology Management - ONR Field Activities	02					U
17	0602898N	Science and Technology Management - ONR Headquarters	02		29,575		29,575	U
	Applied Research			951,575	979,735		979,735	
18	0603114N	Power Projection Advanced Technology	03	41,957	96,406		96,406	U
19	0603123N	Force Protection Advanced Technology	03	42,333	85,338		85,338	U
20	0603271N	Electromagnetic Systems Advanced Technology	03	32,924	26,405		26,405	U
21	0603640M	USMC Advanced Technology Demonstration (ATD)	03	128,386	140,327		140,327	U
22	0603651M	Joint Non-Lethal Weapons Technology Development	03	12,374	13,109		13,109	U
23	0603673N	Future Naval Capabilities Advanced Technology Development	03	251,173	266,019		266,019	U
24	0603680N	Manufacturing Technology Program	03	54,739	56,712		56,712	U
25	0603729N	Warfighter Protection Advanced Technology	03	34,894	40,788		40,788	U
26	0603747N	Undersea Warfare Advanced Technology	03	13,251	25,880		25,880	U
27	0603758N	Navy Warfighting Experiments and Demonstrations	03	65,553	59,515		59,515	U
28	0603782N	Mine and Expeditionary Warfare Advanced Technology	03	3,349	13,144		13,144	U
29	0603801N	Innovative Naval Prototypes (INP) Advanced Technology Development	03					U
	Advanced Technology Development			680,933	823,643		823,643	

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Line No	Program Element Number	Item	Act	FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total	Se
16	0602861N	Science and Technology Management - ONR Field Activities	02	62,722						62,722	U
17	0602898N	Science and Technology Management - ONR Headquarters	02								U
		Applied Research		886,079						886,079	
18	0603114N	Power Projection Advanced Technology	03								U
19	0603123N	Force Protection Advanced Technology	03	26,342						26,342	U
20	0603271N	Electromagnetic Systems Advanced Technology	03	9,360						9,360	U
21	0603640M	USMC Advanced Technology Demonstration (ATD)	03	154,407						154,407	U
22	0603651M	Joint Non-Lethal Weapons Technology Development	03	13,448						13,448	U
23	0603673N	Future Naval Capabilities Advanced Technology Development	03	231,772						231,772	U
24	0603680N	Manufacturing Technology Program	03	57,797						57,797	U
25	0603729N	Warfighter Protection Advanced Technology	03	4,878						4,878	U
26	0603747N	Undersea Warfare Advanced Technology	03								U
27	0603758N	Navy Warfighting Experiments and Demonstrations	03	64,889						64,889	U
28	0603782N	Mine and Expeditionary Warfare Advanced Technology	03	15,164						15,164	U
29	0603801N	Innovative Naval Prototypes (INP) Advanced Technology Development	03	108,285						108,285	U
		Advanced Technology Development		686,342						686,342	

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Line No	Program Element Number	Item	Act	FY 2016 Base + OCO	FY 2017 Base Enactment	FY 2017 OCO Enactment	FY 2017 Total (Base + OCO)	Se
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30	0603207N	Air/Ocean Tactical Applications	04	37,126	44,936		44,936	U
31	0603216N	Aviation Survivability	04	5,343	15,239		15,239	U
32	0603237N	Deployable Joint Command and Control	04	3,051				U
33	0603251N	Aircraft Systems	04	25,763	1,519		1,519	U
34	0603254N	ASW Systems Development	04	5,455	7,024		7,024	U
35	0603261N	Tactical Airborne Reconnaissance	04	8,391	3,268		3,268	U
36	0603382N	Advanced Combat Systems Technology	04	1,572	3,646		3,646	U
37	0603502N	Surface and Shallow Water Mine Countermeasures	04	88,092	120,775		120,775	U
38	0603506N	Surface Ship Torpedo Defense	04	69,803	71,553		71,553	U
39	0603512N	Carrier Systems Development	04	8,213	7,605		7,605	U
40	0603525N	PILOT FISH	04	124,194	131,948		131,948	U
41	0603527N	RETRACT LARCH	04	39,475	14,531	35,907	50,438	U
42	0603536N	RETRACT JUNIPER	04	109,786	115,360		115,360	U
43	0603542N	Radiological Control	04	709	702		702	U
44	0603553N	Surface ASW	04	1,056	1,081		1,081	U
45	0603561N	Advanced Submarine System Development	04	85,496	117,866	5,800	123,666	U
46	0603562N	Submarine Tactical Warfare Systems	04	10,172	8,782		8,782	U
47	0603563N	Ship Concept Advanced Design	04	10,446	14,570		14,570	U
48	0603564N	Ship Preliminary Design & Feasibility Studies	04	3,213	13,805		13,805	U

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30	0603207N	Air/Ocean Tactical Applications	04	48,365						48,365	U
31	0603216N	Aviation Survivability	04	5,566						5,566	U
32	0603237N	Deployable Joint Command and Control	04								U
33	0603251N	Aircraft Systems	04	695						695	U
34	0603254N	ASW Systems Development	04	7,661						7,661	U
35	0603261N	Tactical Airborne Reconnaissance	04	3,707						3,707	U
36	0603382N	Advanced Combat Systems Technology	04	61,381						61,381	U
37	0603502N	Surface and Shallow Water Mine Countermeasures	04	154,117						154,117	U
38	0603506N	Surface Ship Torpedo Defense	04	14,974						14,974	U
39	0603512N	Carrier Systems Development	04	9,296						9,296	U
40	0603525N	PILOT FISH	04	132,083						132,083	U
41	0603527N	RETRACT LARCH	04	15,407			22,000		22,000	37,407	U
42	0603536N	RETRACT JUNIPER	04	122,413						122,413	U
43	0603542N	Radiological Control	04	745						745	U
44	0603553N	Surface ASW	04	1,136						1,136	U
45	0603561N	Advanced Submarine System Development	04	100,955						100,955	U
46	0603562N	Submarine Tactical Warfare Systems	04	13,834						13,834	U
47	0603563N	Ship Concept Advanced Design	04	36,891						36,891	U
48	0603564N	Ship Preliminary Design & Feasibility Studies	04	12,012						12,012	U

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49	0603570N	Advanced Nuclear Power Systems	04	482,040	453,313		453,313	U
50	0603573N	Advanced Surface Machinery Systems	04	23,443	30,858		30,858	U
51	0603576N	CHALK EAGLE	04	493,472	366,885		366,885	U
52	0603581N	Littoral Combat Ship (LCS)	04	109,426	51,630		51,630	U
53	0603582N	Combat System Integration	04	32,020	23,510		23,510	U
54	0603595N	Ohio Replacement	04	947,783	700,811		700,811	U
55	0603596N	LCS Mission Modules	04	188,872	153,595		153,595	U
56	0603597N	Automated Test and Analysis	04	22,188	15,000		15,000	U
57	0603599N	Frigate Development	04	18,965	84,900		84,900	U
58	0603609N	Conventional Munitions	04	7,676	8,342		8,342	U
59	0603611M	Marine Corps Assault Vehicles	04	196,991	138,762		138,762	U
60	0603635M	Marine Corps Ground Combat/Support System	04	359	1,303		1,303	U
61	0603654N	Joint Service Explosive Ordnance Development	04	14,957	45,390	3,500	48,890	U
62	0603658N	Cooperative Engagement	04	72,472				U
63	0603713N	Ocean Engineering Technology Development	04	5,135	4,556		4,556	U
64	0603721N	Environmental Protection	04	19,286	19,121		19,121	U
65	0603724N	Navy Energy Program	04	54,911	70,879		70,879	U
66	0603725N	Facilities Improvement	04	3,726	5,458		5,458	U
67	0603734N	CHALK CORAL	04	168,960	230,735		230,735	U

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Line No	Program Element Number	Item	Act	FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total	Se
49	0603570N	Advanced Nuclear Power Systems	04	329,500						329,500	U
50	0603573N	Advanced Surface Machinery Systems	04	29,953						29,953	U
51	0603576N	CHALK EAGLE	04	191,610						191,610	U
52	0603581N	Littoral Combat Ship (LCS)	04	40,991						40,991	U
53	0603582N	Combat System Integration	04	24,674						24,674	U
54	0603595N	Ohio Replacement	04	776,158						776,158	U
55	0603596N	LCS Mission Modules	04	116,871						116,871	U
56	0603597N	Automated Test and Analysis	04	8,052						8,052	U
57	0603599N	Frigate Development	04	143,450						143,450	U
58	0603609N	Conventional Munitions	04	8,909						8,909	U
59	0603611M	Marine Corps Assault Vehicles	04								U
60	0603635M	Marine Corps Ground Combat/Support System	04	1,428						1,428	U
61	0603654N	Joint Service Explosive Ordnance Development	04	53,367				29,700	29,700	83,067	U
62	0603658N	Cooperative Engagement	04								U
63	0603713N	Ocean Engineering Technology Development	04	8,212						8,212	U
64	0603721N	Environmental Protection	04	20,214						20,214	U
65	0603724N	Navy Energy Program	04	50,623	-25,000					25,623	U
66	0603725N	Facilities Improvement	04	2,837						2,837	U
67	0603734N	CHALK CORAL	04	245,143						245,143	U

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Line No	Program Element Number	Item	Act	FY 2016 Base + OCO	FY 2017 Base Enactment	FY 2017 OCO Enactment	FY 2017 Total (Base + OCO)	S e c
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68	0603739N	Navy Logistic Productivity	04	3,728	3,089		3,089	U
69	0603746N	RETRACT MAPLE	04	340,897	314,559		314,559	U
70	0603748N	LINK PLUMERIA	04	192,336	284,291		284,291	U
71	0603751N	RETRACT ELM	04	36,086	52,522		52,522	U
72	0603764N	LINK EVERGREEN	04	45,603	48,116		48,116	U
73	0603787N	Special Processes	04	16,769	13,604		13,604	U
74	0603790N	NATO Research and Development	04	8,320	8,567		8,567	U
75	0603795N	Land Attack Technology	04	887	18,015		18,015	U
76	0603851M	Joint Non-Lethal Weapons Testing	04	27,976	27,893		27,893	U
77	0603860N	Joint Precision Approach and Landing Systems - Dem/Val	04	80,313	102,722		102,722	U
78	0603925N	Directed Energy and Electric Weapon Systems	04	41,355	32,700		32,700	U
79	0604112N	Gerald R. Ford Class Nuclear Aircraft Carrier (CVN 78 - 80)	04	95,408	70,528		70,528	U
80	0604122N	Remote Minehunting System (RMS)	04	16,940	3,001		3,001	U
81	0604272N	Tactical Air Directional Infrared Countermeasures (TADIRCM)	04	18,963	26,920	37,990	64,910	U
82	0604279N	ASE Self-Protection Optimization	04	8,995				U
83	0604286M	Marine Corps Additive Manufacturing Technology Development	04					U
84	0604292N	MH-XX	04	4,462	1,620		1,620	U
85	0604320M	Rapid Technology Capability Prototype	04					U

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68	0603739N	Navy Logistic Productivity	04	2,995						2,995	U
69	0603746N	RETRACT MAPLE	04	306,101						306,101	U
70	0603748N	LINK PLUMERIA	04	253,675						253,675	U
71	0603751N	RETRACT ELM	04	55,691						55,691	U
72	0603764N	LINK EVERGREEN	04	48,982						48,982	U
73	0603787N	Special Processes	04								U
74	0603790N	NATO Research and Development	04	9,099						9,099	U
75	0603795N	Land Attack Technology	04	33,568				2,100	2,100	35,668	U
76	0603851M	Joint Non-Lethal Weapons Testing	04	29,873						29,873	U
77	0603860N	Joint Precision Approach and Landing Systems - Dem/Val	04	106,391						106,391	U
78	0603925N	Directed Energy and Electric Weapon Systems	04	107,310						107,310	U
79	0604112N	Gerald R. Ford Class Nuclear Aircraft Carrier (CVN 78 - 80)	04	83,935						83,935	U
80	0604122N	Remote Minehunting System (RMS)	04								U
81	0604272N	Tactical Air Directional Infrared Countermeasures (TADIRCM)	04	46,844			5,710		5,710	52,554	U
82	0604279N	ASE Self-Protection Optimization	04								U
83	0604286M	Marine Corps Additive Manufacturing Technology Development	04	6,200						6,200	U
84	0604292N	MH-XX	04								U
85	0604320M	Rapid Technology Capability Prototype	04	7,055						7,055	U

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86	0604454N	LX (R)	04	73,392	25,354		25,354	U
87	0604536N	Advanced Undersea Prototyping	04		59,479		59,479	U
88	0604653N	Joint Counter Radio Controlled IED Electronic Warfare (JCREW)	04	3,765				U
89	0604659N	Precision Strike Weapons Development Program	04	7,621	4,910		4,910	U
90	0604707N	Space and Electronic Warfare (SEW) Architecture/Engineering Support	04	22,214	20,608		20,608	U
91	0604786N	Offensive Anti-Surface Warfare Weapon Development	04	348,708	300,971	10,100	311,071	U
92	0605812M	Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Development Ph	04	24,790	9,597		9,597	U
93	0303354N	ASW Systems Development - MIP	04	9,835	9,110		9,110	U
94	0304240M	Advanced Tactical Unmanned Aircraft System	04					U
95	0304270N	Electronic Warfare Development - MIP	04	580	437		437	U
		Advanced Component Development & Prototypes		4,929,981	4,537,871	93,297	4,631,168	
96	0603208N	Training System Aircraft	05	16,438	17,938		17,938	U
97	0604212N	Other Helo Development	05	12,070	5,968		5,968	U
98	0604214N	AV-8B Aircraft - Eng Dev	05	26,939	32,664		32,664	U
99	0604215N	Standards Development	05	48,677	1,300		1,300	U
100	0604216N	Multi-Mission Helicopter Upgrade Development	05	17,518	5,275		5,275	U
101	0604218N	Air/Ocean Equipment Engineering	05	4,406	3,875		3,875	U

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86	0604454N	LX (R)	04	9,578						9,578	U
87	0604536N	Advanced Undersea Prototyping	04	66,543						66,543	U
88	0604653N	Joint Counter Radio Controlled IED Electronic Warfare (JCREW)	04								U
89	0604659N	Precision Strike Weapons Development Program	04	31,315						31,315	U
90	0604707N	Space and Electronic Warfare (SEW) Architecture/Engineering Support	04	42,851						42,851	U
91	0604786N	Offensive Anti-Surface Warfare Weapon Development	04	160,694						160,694	U
92	0605812M	Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Development Ph	04								U
93	0303354N	ASW Systems Development - MIP	04	8,278						8,278	U
94	0304240M	Advanced Tactical Unmanned Aircraft System	04	7,979						7,979	U
95	0304270N	Electronic Warfare Development - MIP	04	527						527	U
		Advanced Component Development & Prototypes		4,218,714	-25,000		27,710	31,800	59,510	4,253,224	
96	0603208N	Training System Aircraft	05	16,945						16,945	U
97	0604212N	Other Helo Development	05	26,786						26,786	U
98	0604214N	AV-8B Aircraft - Eng Dev	05	48,780						48,780	U
99	0604215N	Standards Development	05	2,722						2,722	U
100	0604216N	Multi-Mission Helicopter Upgrade Development	05	5,371						5,371	U
101	0604218N	Air/Ocean Equipment Engineering	05	782						782	U

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102	0604221N	P-3 Modernization Program	05	1,485	1,909		1,909	U
103	0604230N	Warfare Support System	05	5,740	11,537		11,537	U
104	0604231N	Tactical Command System	05	75,508	36,303		36,303	U
105	0604234N	Advanced Hawkeye	05	211,146	365,169		365,169	U
106	0604245N	H-1 Upgrades	05	26,768	27,436		27,436	U
107	0604261N	Acoustic Search Sensors	05	30,637	29,525		29,525	U
108	0604262N	V-22A	05	74,366	154,240		154,240	U
109	0604264N	Air Crew Systems Development	05	10,201	7,477		7,477	U
110	0604269N	EA-18	05	45,384	104,441		104,441	U
111	0604270N	Electronic Warfare Development	05	22,383	42,378		42,378	U
112	0604273N	Executive Helo Development	05	490,768	338,347		338,347	U
113	0604274N	Next Generation Jammer (NGJ)	05	376,548	577,822		577,822	U
114	0604280N	Joint Tactical Radio System - Navy (JTRS-Navy)	05	24,300	2,362		2,362	U
115	0604282N	Next Generation Jammer (NGJ) Increment II	05	12,306	18,965		18,965	U
116	0604307N	Surface Combatant Combat System Engineering	05	430,450	275,756		275,756	U
117	0604311N	LPD-17 Class Systems Integration	05	730	580		580	U
118	0604329N	Small Diameter Bomb (SDB)	05	55,818	91,622		91,622	U
119	0604366N	Standard Missile Improvements	05	111,295	120,561		120,561	U
120	0604373N	Airborne MCM	05	9,399	45,622		45,622	U

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102	0604221N	P-3 Modernization Program	05	1,361						1,361	U
103	0604230N	Warfare Support System	05	14,167				5,400	5,400	19,567	U
104	0604231N	Tactical Command System	05	55,695						55,695	U
105	0604234N	Advanced Hawkeye	05	292,535						292,535	U
106	0604245N	H-1 Upgrades	05	61,288						61,288	U
107	0604261N	Acoustic Search Sensors	05	37,167						37,167	U
108	0604262N	V-22A	05	171,386						171,386	U
109	0604264N	Air Crew Systems Development	05	13,235						13,235	U
110	0604269N	EA-18	05	173,488						173,488	U
111	0604270N	Electronic Warfare Development	05	54,055						54,055	U
112	0604273N	Executive Helo Development	05	451,938						451,938	U
113	0604274N	Next Generation Jammer (NGJ)	05	632,936						632,936	U
114	0604280N	Joint Tactical Radio System - Navy (JTRS-Navy)	05	4,310						4,310	U
115	0604282N	Next Generation Jammer (NGJ) Increment II	05	66,686						66,686	U
116	0604307N	Surface Combatant Combat System Engineering	05	390,238						390,238	U
117	0604311N	LPD-17 Class Systems Integration	05	689						689	U
118	0604329N	Small Diameter Bomb (SDB)	05	112,846						112,846	U
119	0604366N	Standard Missile Improvements	05	158,578						158,578	U
120	0604373N	Airborne MCM	05	15,734						15,734	U

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121	0604376M	Marine Air Ground Task Force (MAGTF) Electronic Warfare (EW) for Aviation	05	3,281				U
122	0604378N	Naval Integrated Fire Control - Counter Air Systems Engineering	05	22,960	25,750		25,750	U
123	0604404N	Unmanned Carrier Launched Airborne Surveillance and Strike (UCLASS) System	05	414,376				U
124	0604501N	Advanced Above Water Sensors	05	42,796	72,856		72,856	U
125	0604503N	SSN-688 and Trident Modernization	05	106,342	123,460		123,460	U
126	0604504N	Air Control	05	55,947	44,858		44,858	U
127	0604512N	Shipboard Aviation Systems	05	117,401	116,158		116,158	U
128	0604518N	Combat Information Center Conversion	05		6,283		6,283	U
129	0604522N	Air and Missile Defense Radar (AMDR) System	05	227,051	144,362		144,362	U
130	0604558N	New Design SSN	05	150,442	130,011		130,011	U
131	0604562N	Submarine Tactical Warfare System	05	51,054	52,160		52,160	U
132	0604567N	Ship Contract Design/ Live Fire T&E	05	38,060	85,002		85,002	U
133	0604574N	Navy Tactical Computer Resources	05	4,053	3,098		3,098	U
134	0604580N	Virginia Payload Module (VPM)	05	162,168	97,920		97,920	U
135	0604601N	Mine Development	05	12,602	10,490	4,800	15,290	U
136	0604610N	Lightweight Torpedo Development	05	42,548	30,178		30,178	U
137	0604654N	Joint Service Explosive Ordnance Development	05	8,123	7,369		7,369	U

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121	0604376M	Marine Air Ground Task Force (MAGTF) Electronic Warfare (EW) for Aviation	05								U
122	0604378N	Naval Integrated Fire Control - Counter Air Systems Engineering	05	25,445						25,445	U
123	0604404N	Unmanned Carrier Launched Airborne Surveillance and Strike (UCLASS) System	05								U
124	0604501N	Advanced Above Water Sensors	05	87,233						87,233	U
125	0604503N	SSN-688 and Trident Modernization	05	130,981						130,981	U
126	0604504N	Air Control	05	75,186						75,186	U
127	0604512N	Shipboard Aviation Systems	05	177,926						177,926	U
128	0604518N	Combat Information Center Conversion	05	8,062						8,062	U
129	0604522N	Air and Missile Defense Radar (AMDR) System	05	32,090						32,090	U
130	0604558N	New Design SSN	05	120,087						120,087	U
131	0604562N	Submarine Tactical Warfare System	05	50,850						50,850	U
132	0604567N	Ship Contract Design/ Live Fire T&E	05	67,166						67,166	U
133	0604574N	Navy Tactical Computer Resources	05	4,817						4,817	U
134	0604580N	Virginia Payload Module (VPM)	05	72,861						72,861	U
135	0604601N	Mine Development	05	25,635						25,635	U
136	0604610N	Lightweight Torpedo Development	05	28,076						28,076	U
137	0604654N	Joint Service Explosive Ordnance Development	05	7,561						7,561	U

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138	0604703N	Personnel, Training, Simulation, and Human Factors	05	7,408	4,995		4,995	U
139	0604727N	Joint Standoff Weapon Systems	05	394	412		412	U
140	0604755N	Ship Self Defense (Detect & Control)	05	145,229	134,619		134,619	U
141	0604756N	Ship Self Defense (Engage: Hard Kill)	05	93,481	119,474		119,474	U
142	0604757N	Ship Self Defense (Engage: Soft Kill/EW)	05	100,153	103,878		103,878	U
143	0604761N	Intelligence Engineering	05	2,053	9,029		9,029	U
144	0604771N	Medical Development	05	24,658	25,220		25,220	U
145	0604777N	Navigation/ID System	05	32,339	42,711		42,711	U
146	0604800M	Joint Strike Fighter (JSF) - EMD	05	526,247	531,426		531,426	U
147	0604800N	Joint Strike Fighter (JSF) - EMD	05	488,703	528,716		528,716	U
148	0604810M	Joint Strike Fighter Follow On Modernization (FoM) - Marine Corps	05	20,157	29,691		29,691	U
149	0604810N	Joint Strike Fighter Follow On Modernization (FoM) - Navy	05	20,544	25,355		25,355	U
150	0605013M	Information Technology Development	05	3,915	4,856		4,856	U
151	0605013N	Information Technology Development	05	77,895	90,551		90,551	U
152	0605024N	Anti-Tamper Technology Support	05		500		500	U
153	0605212N	CH-53K RDTE	05	563,174	350,808		350,808	U
154	0605215N	Mission Planning	05		33,566		33,566	U
155	0605217N	Common Avionics	05		49,491		49,491	U

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138	0604703N	Personnel, Training, Simulation, and Human Factors	05	40,828						40,828	U
139	0604727N	Joint Standoff Weapon Systems	05	435						435	U
140	0604755N	Ship Self Defense (Detect & Control)	05	161,713						161,713	U
141	0604756N	Ship Self Defense (Engage: Hard Kill)	05	212,412						212,412	U
142	0604757N	Ship Self Defense (Engage: Soft Kill/EW)	05	103,391						103,391	U
143	0604761N	Intelligence Engineering	05	34,855						34,855	U
144	0604771N	Medical Development	05	9,353						9,353	U
145	0604777N	Navigation/ID System	05	92,546						92,546	U
146	0604800M	Joint Strike Fighter (JSF) - EMD	05	152,934						152,934	U
147	0604800N	Joint Strike Fighter (JSF) - EMD	05	108,931						108,931	U
148	0604810M	Joint Strike Fighter Follow On Modernization (FoM) - Marine Corps	05	144,958						144,958	U
149	0604810N	Joint Strike Fighter Follow On Modernization (FoM) - Navy	05	143,855						143,855	U
150	0605013M	Information Technology Development	05	14,865						14,865	U
151	0605013N	Information Technology Development	05	152,977						152,977	U
152	0605024N	Anti-Tamper Technology Support	05	3,410						3,410	U
153	0605212N	CH-53K RDTE	05	340,758						340,758	U
154	0605215N	Mission Planning	05	33,430						33,430	U
155	0605217N	Common Avionics	05	58,163						58,163	U

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156	0605220N	Ship to Shore Connector (SSC)	05	7,734	11,088		11,088	U
157	0605327N	T-AO 205 Class	05		1,095		1,095	U
158	0605414N	Unmanned Carrier Aviation (UCA)	05		76,400		76,400	U
159	0605450N	Joint Air-to-Ground Missile (JAGM)	05	25,640	17,880		17,880	U
160	0605500N	Multi-mission Maritime Aircraft (MMA)	05	151,472	64,114		64,114	U
161	0605504N	Multi-Mission Maritime (MMA) Increment III	05	89,686	112,316		112,316	U
162	0605611M	Marine Corps Assault Vehicles System Development & Demonstration	05					U
163	0605813M	Joint Light Tactical Vehicle (JLTV) System Development & Demonstration	05					U
164	0204202N	DDG-1000	05	101,724	45,610		45,610	U
165	0303167N	Pre-Auction Spectrum Relocation Fund	05	131				U
166	0303267N	Auctioned Spectrum Relocation Fund	05	108,490				U
167	0304231N	Tactical Command System - MIP	05	998	676		676	U
168	0304785N	Tactical Cryptologic Systems	05	17,785	34,047		34,047	U
169	0305124N	Special Applications Program	05	26,505	35,002		35,002	U
170	0306250M	Cyber Operations Technology Development	05		2,442		2,442	U
				-----	-----	-----	-----	
		System Development & Demonstration		6,236,999	5,754,995	4,800	5,759,795	
171	0604256N	Threat Simulator Development	06	30,323	16,633		16,633	U
172	0604258N	Target Systems Development	06	58,730	36,662		36,662	U

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Line No	Program Element Number	Item	Act	FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total	S e c
156	0605220N	Ship to Shore Connector (SSC)	05	22,410						22,410	U
157	0605327N	T-AO 205 Class	05	1,961						1,961	U
158	0605414N	Unmanned Carrier Aviation (UCA)	05	222,208						222,208	U
159	0605450N	Joint Air-to-Ground Missile (JAGM)	05	15,473						15,473	U
160	0605500N	Multi-mission Maritime Aircraft (MMA)	05	11,795						11,795	U
161	0605504N	Multi-Mission Maritime (MMA) Increment III	05	181,731						181,731	U
162	0605611M	Marine Corps Assault Vehicles System Development & Demonstration	05	178,993						178,993	U
163	0605813M	Joint Light Tactical Vehicle (JLTV) System Development & Demonstration	05	20,710						20,710	U
164	0204202N	DDG-1000	05	140,500						140,500	U
165	0303167N	Pre-Auction Spectrum Relocation Fund	05								U
166	0303267N	Auctioned Spectrum Relocation Fund	05								U
167	0304231N	Tactical Command System - MIP	05								U
168	0304785N	Tactical Cryptologic Systems	05	28,311						28,311	U
169	0305124N	Special Applications Program	05								U
170	0306250M	Cyber Operations Technology Development	05	4,502						4,502	U
		System Development & Demonstration		6,362,102				5,400	5,400	6,367,502	
171	0604256N	Threat Simulator Development	06	91,819						91,819	U
172	0604258N	Target Systems Development	06	23,053						23,053	U

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Line No	Program Element Number	Item	Act	FY 2016 Base + OCO	FY 2017 Base Enactment	FY 2017 OCO Enactment	FY 2017 Total (Base + OCO)	Se
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173	0604759N	Major T&E Investment	06	66,538	52,096		52,096	U
174	0605126N	Joint Theater Air and Missile Defense Organization	06	6,799	2,998		2,998	U
175	0605152N	Studies and Analysis Support - Navy	06	4,141	3,931		3,931	U
176	0605154N	Center for Naval Analyses	06	45,558	45,257		45,257	U
177	0605285N	Next Generation Fighter	06	5,909	1,200		1,200	U
178	0605502N	Small Business Innovative Research	06	384,569				U
179	0605804N	Technical Information Services	06	1,328	903		903	U
180	0605853N	Management, Technical & International Support	06	77,073	99,923		99,923	U
181	0605856N	Strategic Technical Support	06	3,140	3,597		3,597	U
182	0605861N	RDT&E Science and Technology Management	06	76,872	62,811		62,811	U
183	0605863N	RDT&E Ship and Aircraft Support	06	128,715	106,093		106,093	U
184	0605864N	Test and Evaluation Support	06	351,469	349,146	52,300	401,446	U
185	0605865N	Operational Test and Evaluation Capability	06	17,796	18,160		18,160	U
186	0605866N	Navy Space and Electronic Warfare (SEW) Support	06	6,316	9,658		9,658	U
187	0605867N	SEW Surveillance/Reconnaissance Support	06	6,519	6,500		6,500	U
188	0605873M	Marine Corps Program Wide Support	06	14,129	19,736		19,736	U
189	0605898N	Management HQ - R&D	06		16,254		16,254	U
190	0606355N	Warfare Innovation Management	06		15,415		15,415	U

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Line No	Program Element Number	Item	Act	FY 2018 Base Request	FY 2018 June Amendment Base	FY 2018 Amendment Emergency	FY 2018 OCO Request	FY 2018 Amendment OCO	FY 2018 Total OCO	FY 2018 Grand Total	Se
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173	0604759N	Major T&E Investment	06	52,634						52,634	U
174	0605126N	Joint Theater Air and Missile Defense Organization	06	141						141	U
175	0605152N	Studies and Analysis Support - Navy	06	3,917						3,917	U
176	0605154N	Center for Naval Analyses	06	50,432						50,432	U
177	0605285N	Next Generation Fighter	06								U
178	0605502N	Small Business Innovative Research	06								U
179	0605804N	Technical Information Services	06	782						782	U
180	0605853N	Management, Technical & International Support	06	94,562						94,562	U
181	0605856N	Strategic Technical Support	06	4,313						4,313	U
182	0605861N	RDT&E Science and Technology Management	06	1,104						1,104	U
183	0605863N	RDT&E Ship and Aircraft Support	06	105,666						105,666	U
184	0605864N	Test and Evaluation Support	06	373,667						373,667	U
185	0605865N	Operational Test and Evaluation Capability	06	20,298						20,298	U
186	0605866N	Navy Space and Electronic Warfare (SEW) Support	06	17,341						17,341	U
187	0605867N	SEW Surveillance/Reconnaissance Support	06								U
188	0605873M	Marine Corps Program Wide Support	06	21,751						21,751	U
189	0605898N	Management HQ - R&D	06	44,279						44,279	U
190	0606355N	Warfare Innovation Management	06	28,841						28,841	U

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Line No	Program Element Number	Item	Act	FY 2016 Base + OCO	FY 2017 Base Enactment	FY 2017 OCO Enactment	FY 2017 Total (Base + OCO)	S e c
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191	0902498N	Management Headquarters (Departmental Support Activities)	06					U
192	0909980N	Judgment Fund Reimbursement	06	398				U
193	0909999N	Financing for Cancelled Account Adjustments	06	171				U
194	1206867N	SEW Surveillance/Reconnaissance Support	06					U
		Management Support		1,286,493	866,973	52,300	919,273	
196	0607658N	Cooperative Engagement Capability (CEC)	07		77,001		77,001	U
197	0607700N	Deployable Joint Command and Control	07		2,970		2,970	U
198	0101221N	Strategic Sub & Weapons System Support	07	96,078	131,056		131,056	U
199	0101224N	SSBN Security Technology Program	07	45,166	33,808		33,808	U
200	0101226N	Submarine Acoustic Warfare Development	07	4,658	9,329		9,329	U
201	0101402N	Navy Strategic Communications	07	16,121	17,194		17,194	U
202	0203761N	Rapid Technology Transition (RTT)	07	7,626				U
203	0204136N	F/A-18 Squadrons	07	132,905	174,393		174,393	U
204	0204163N	Fleet Telecommunications (Tactical)	07	39,548	47,791		47,791	U
205	0204228N	Surface Support	07	28,210	21,156		21,156	U
206	0204229N	Tomahawk and Tomahawk Mission Planning Center (TMPC)	07	26,650	43,016		43,016	U
207	0204311N	Integrated Surveillance System	07	76,204	57,043		57,043	U

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191	0902498N	Management Headquarters (Departmental Support Activities)	06	1,749						1,749	U
192	0909980N	Judgment Fund Reimbursement	06								U
193	0909999N	Financing for Cancelled Account Adjustments	06								U
194	1206867N	SEW Surveillance/Reconnaissance Support	06	9,408						9,408	U
		Management Support		945,757						945,757	
196	0607658N	Cooperative Engagement Capability (CEC)	07	92,571						92,571	U
197	0607700N	Deployable Joint Command and Control	07	3,137						3,137	U
198	0101221N	Strategic Sub & Weapons System Support	07	135,219						135,219	U
199	0101224N	SSBN Security Technology Program	07	36,242						36,242	U
200	0101226N	Submarine Acoustic Warfare Development	07	12,053						12,053	U
201	0101402N	Navy Strategic Communications	07	18,221						18,221	U
202	0203761N	Rapid Technology Transition (RTT)	07								U
203	0204136N	F/A-18 Squadrons	07	224,470						224,470	U
204	0204163N	Fleet Telecommunications (Tactical)	07	33,525						33,525	U
205	0204228N	Surface Support	07	24,829						24,829	U
206	0204229N	Tomahawk and Tomahawk Mission Planning Center (TMPC)	07	133,617						133,617	U
207	0204311N	Integrated Surveillance System	07	38,972			11,600		11,600	50,572	U

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208	0204413N	Amphibious Tactical Support Units (Displacement Craft)	07	11,330	13,929		13,929	U
209	0204460M	Ground/Air Task Oriented Radar (G/ATOR)	07	61,348	81,009		81,009	U
210	0204571N	Consolidated Training Systems Development	07	32,902	45,331		45,331	U
211	0204574N	Cryptologic Direct Support	07	1,915	1,122		1,122	U
212	0204575N	Electronic Warfare (EW) Readiness Support	07	44,727	83,292		83,292	U
213	0205601N	HARM Improvement	07	28,063	38,435		38,435	U
214	0205604N	Tactical Data Links	07	138,549	124,517		124,517	U
215	0205620N	Surface ASW Combat System Integration	07	23,685	24,567		24,567	U
216	0205632N	MK-48 ADCAP	07	47,496	49,128		49,128	U
217	0205633N	Aviation Improvements	07	103,685	118,853		118,853	U
218	0205675N	Operational Nuclear Power Systems	07	101,323	101,786		101,786	U
219	0206313M	Marine Corps Communications Systems	07	84,017	98,862	41,714	140,576	U
220	0206335M	Common Aviation Command and Control System (CAC2S)	07	13,959	8,976		8,976	U
221	0206623M	Marine Corps Ground Combat/Supporting Arms Systems	07	55,058	41,857		41,857	U
222	0206624M	Marine Corps Combat Services Support	07	23,423	11,700		11,700	U
223	0206625M	USMC Intelligence/Electronic Warfare Systems (MIP)	07	13,373	17,167	5,800	22,967	U
224	0206629M	Amphibious Assault Vehicle	07	41,363	38,020		38,020	U

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208	0204413N	Amphibious Tactical Support Units (Displacement Craft)	07	3,940						3,940	U
209	0204460M	Ground/Air Task Oriented Radar (G/ATOR)	07	54,645						54,645	U
210	0204571N	Consolidated Training Systems Development	07	66,518						66,518	U
211	0204574N	Cryptologic Direct Support	07	1,155			1,200		1,200	2,355	U
212	0204575N	Electronic Warfare (EW) Readiness Support	07	51,040						51,040	U
213	0205601N	HARM Improvement	07	87,989						87,989	U
214	0205604N	Tactical Data Links	07	89,852						89,852	U
215	0205620N	Surface ASW Combat System Integration	07	29,351						29,351	U
216	0205632N	MK-48 ADCAP	07	68,553						68,553	U
217	0205633N	Aviation Improvements	07	119,099						119,099	U
218	0205675N	Operational Nuclear Power Systems	07	127,445						127,445	U
219	0206313M	Marine Corps Communications Systems	07	123,825						123,825	U
220	0206335M	Common Aviation Command and Control System (CAC2S)	07	7,343						7,343	U
221	0206623M	Marine Corps Ground Combat/Supporting Arms Systems	07	66,009						66,009	U
222	0206624M	Marine Corps Combat Services Support	07	25,258						25,258	U
223	0206625M	USMC Intelligence/Electronic Warfare Systems (MIP)	07	30,886						30,886	U
224	0206629M	Amphibious Assault Vehicle	07	58,728						58,728	U

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225	0207161N	Tactical AIM Missiles	07	59,053	56,285		56,285	U
226	0207163N	Advanced Medium Range Air-to-Air Missile (AMRAAM)	07	30,240	40,350		40,350	U
227	0219902M	Global Combat Support System - Marine Corps (GCSS-MC)	07		9,128		9,128	U
231	0303109N	Satellite Communications (SPACE)	07	45,946	32,048		32,048	U
232	0303138N	Consolidated Afloat Network Enterprise Services (CANES)	07	21,522	23,530		23,530	U
233	0303140N	Information Systems Security Program	07	29,491	33,257		33,257	U
235	0305160N	Navy Meteorological and Ocean Sensors-Space (METOC)	07	599				U
236	0305192N	Military Intelligence Program (MIP) Activities	07	6,207	6,019		6,019	U
237	0305204N	Tactical Unmanned Aerial Vehicles	07	8,550	8,436		8,436	U
238	0305205N	UAS Integration and Interoperability	07	42,202	21,909		21,909	U
239	0305208M	Distributed Common Ground/Surface Systems	07	1,105	2,090		2,090	U
240	0305208N	Distributed Common Ground/Surface Systems	07	23,149	44,564		44,564	U
241	0305220N	MQ-4C Triton	07	237,118	111,631		111,631	U
242	0305231N	MQ-8 UAV	07	52,770	26,518		26,518	U
243	0305232M	RQ-11 UAV	07	635				U
244	0305233N	RQ-7 UAV	07	688				U
245	0305234N	Small (Level 0) Tactical UAS (STUASL0)	07	4,647	5,071		5,071	U

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225	0207161N	Tactical AIM Missiles	07	42,884						42,884	U
226	0207163N	Advanced Medium Range Air-to-Air Missile (AMRAAM)	07	25,364						25,364	U
227	0219902M	Global Combat Support System - Marine Corps (GCSS-MC)	07								U
231	0303109N	Satellite Communications (SPACE)	07								U
232	0303138N	Consolidated Afloat Network Enterprise Services (CANES)	07	24,271						24,271	U
233	0303140N	Information Systems Security Program	07	50,269						50,269	U
235	0305160N	Navy Meteorological and Ocean Sensors-Space (METOC)	07								U
236	0305192N	Military Intelligence Program (MIP) Activities	07	6,352						6,352	U
237	0305204N	Tactical Unmanned Aerial Vehicles	07	7,770						7,770	U
238	0305205N	UAS Integration and Interoperability	07	39,736						39,736	U
239	0305208M	Distributed Common Ground/Surface Systems	07	12,867						12,867	U
240	0305208N	Distributed Common Ground/Surface Systems	07	46,150						46,150	U
241	0305220N	MQ-4C Triton	07	84,115						84,115	U
242	0305231N	MQ-8 UAV	07	62,656						62,656	U
243	0305232M	RQ-11 UAV	07	2,022						2,022	U
244	0305233N	RQ-7 UAV	07								U
245	0305234N	Small (Level 0) Tactical UAS (STUASL0)	07	4,835						4,835	U

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246	0305239M	RQ-21A	07	6,251	8,379		8,379	U
247	0305241N	Multi-Intelligence Sensor Development	07	39,645	64,765		64,765	U
248	0305242M	Unmanned Aerial Systems (UAS) Payloads (MIP)	07	9,246	11,181		11,181	U
249	0305421N	RQ-4 Modernization	07	119,892	144,566		144,566	U
250	0308601N	Modeling and Simulation Support	07	4,585	4,709		4,709	U
251	0702207N	Depot Maintenance (Non-IF)	07	23,401	38,277		38,277	U
252	0708730N	Maritime Technology (MARITECH)	07	4,162	3,204		3,204	U
253	1203109N	Satellite Communications (SPACE)	07					U
9999	9999999999	Classified Programs		1,527,932	1,473,460	128,626	1,602,086	U
		Operational Systems Development		3,598,418	3,682,685	176,140	3,858,825	
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		Total Research, Development, Test & Eval, Navy		18,333,041	17,208,841	326,537	17,535,378	

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246	0305239M	RQ-21A	07	8,899						8,899	U
247	0305241N	Multi-Intelligence Sensor Development	07	99,020						99,020	U
248	0305242M	Unmanned Aerial Systems (UAS) Payloads (MIP)	07	18,578						18,578	U
249	0305421N	RQ-4 Modernization	07	229,404						229,404	U
250	0308601N	Modeling and Simulation Support	07	5,238						5,238	U
251	0702207N	Depot Maintenance (Non-IF)	07	38,227						38,227	U
252	0708730N	Maritime Technology (MARITECH)	07	4,808						4,808	U
253	1203109N	Satellite Communications (SPACE)	07	37,836						37,836	U
9999	9999999999	Classified Programs		1,364,347		60,000	89,855		89,855	1,514,202	U
		Operational Systems Development		3,980,140			102,655		102,655	4,142,795	
Total Research, Development, Test & Eval, Navy				17,675,035	-25,000		130,365	37,200	167,565	17,877,600	



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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2018 Navy	<b>Date:</b> October 2017
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<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 04: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>					<b>R-1 Program Element (Number/Name)</b> PE 0603654N / <i>JT Service Explosive Ordn Dev</i>							
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	567.807	14.957	50.411	53.367	29.700	83.067	-	-	-	-	-	-
0377: <i>JT Service Expl Ord Disp System</i>	359.533	5.966	14.039	13.572	-	13.572	-	-	-	-	-	-
1317: <i>EOD Diving System</i>	105.501	1.947	5.467	5.113	-	5.113	-	-	-	-	-	-
3177: <i>Joint Counter Radio-Controlled IED Elec Warfare</i>	0.000	0.000	13.345	15.564	29.700	45.264	-	-	-	-	-	-
4023: <i>VSW MCM/Force Protection UUV</i>	102.773	7.044	17.560	19.118	-	19.118	-	-	-	-	-	-

**A. Mission Description and Budget Item Justification**

AMENDED BUDGET REQUEST JUSTIFICATION: : \$29.7 million OCO is required to address emergency warfighting readiness requirements for RDT&E Project 3177, Joint Counter Radio- Controlled IED Electronic Warfare (JCREW). Navy assigned requirement to provide additional Counter Unmanned Aerial System (C-UAS) capability in the continued response to JUON CC-0558. Enhanced performance will be required to maintain capability against the evolving UAS threat. These enhancements will require development and testing of hardware and software/firmware upgrades to support C-UAS capabilities. This is not a new start. More details available at a higher classification.

This is a Joint Service Program.

This program provides for the development of Explosive Ordnance Disposal tools and equipment for use by all military services. The responsibility is assigned to the Navy as single service manager, by Department of Defense Directive 5160.62 of 26 April 1989, for management of the Joint Service Explosive Ordnance Disposal Research and Development Program. Proliferation of sophisticated types of foreign and domestic ordnance and Improvised Explosive Devices necessitate a continuing development program to provide Explosive Ordnance Disposal personnel of all military services with the special equipment and tools required to support this mission.

This program also provides life support related equipment necessary to support the performance of Navy Explosive Ordnance Disposal tasks underwater. This equipment must have inherently low acoustic and magnetic signatures in order to allow the Explosive Ordnance Disposal technician to safely approach, render-safe and dispose of sea mines and other underwater ordnance.

This program also provides for the research and development of Electronic Warfare (EW) systems, equipment, procedures, and tactical aids for all military services against the threat posed by Radio-Controlled Improvised Explosive Devices (RCIEDs) and to prevent initiation of RCIEDs across the spectrum of Joint military operations. Utilize Joint requirements to provide a system of systems approach for a suite of equipment for mounted, dismounted, and fixed site operations; provide a Joint Counter RCIED EW (CREW) development of equipment, procedures, and tactical aids to make rapid improvements to performance, supportability and affordability, while maintaining pace with evolving global threat.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2018 Navy				Date: October 2017	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
1319: Research, Development, Test & Evaluation, Navy / BA 04: Advanced Component Development & Prototypes (ACD&P)		PE 0603654N / JT Service Explosive Ordn Dev			
B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	15.329	46.911	49.624	-	49.624
Current President's Budget	14.957	50.411	53.367	29.700	83.067
Total Adjustments	-0.372	3.500	3.743	29.700	33.443
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.372	0.000			
• Program Adjustments	0.000	3.500	0.000	-	0.000
• Rate/Misc Adjustments	0.000	0.000	3.743	29.700	33.443
Change Summary Explanation					
Other Rate/Misc Adjustments:					
+29.7M OCO Project 3177 in support of JUONS CC-0558 Counter Unmanned Aerial Systems.					

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2018 Navy	<b>Date:</b> October 2017
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<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 04: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>					<b>R-1 Program Element (Number/Name)</b> PE 0603795N / <i>Land Attack Tech</i>							
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	14.584	0.887	6.015	33.568	2.100	35.668	-	-	-	-	-	-
2020: <i>Advanced Gun System Projectile</i>	0.000	0.000	0.000	18.000	-	18.000	-	-	-	-	-	-
2038: <i>ADVANCED MINOR CALIBER GUN</i>	14.584	0.887	0.573	0.000	2.100	2.100	-	-	-	-	-	-
3370: <i>Railgun</i>	0.000	0.000	5.442	0.000	-	0.000	-	-	-	-	-	-
3401: <i>Guided Projectile</i>	0.000	0.000	0.000	15.568	-	15.568	-	-	-	-	-	-

**A. Mission Description and Budget Item Justification**

AMENDED BUDGET REQUEST JUSTIFICATION: \$2.1 million OCO is required to address emergency warfighting readiness requirements. Project 2038: In order to respond to the Joint Urgent Operational Need Statement (JUONS CC-0558) Counter Unmanned Aerial Systems (CUAS), the MK 38 MOD 2 Machine Gun System will be upgraded to counter these threats. Fielding is planned to start 1Q FY20. Efforts will include software improvements to the optics and fire control capabilities of the MK 38 Machine Gun System in order to be able to detect, track, and engage UAS threats. Some hardware changes will be made to sensing and computing equipment to enable the new software improvements. This is not a new start, and continues the project funded in FY2017 in support of the CUAS JUONS CC-0558. More details available at a higher classification.

Project 2020: The Advanced Gun System (AGS) projectile will provide Naval Surface Fires support for DDG 1000 class destroyers from the MK-51 Gun Weapon System (GWS). The AGS projectile will replace the Long Range Land Attack Projectile which was the original 155mm munitions developed for the MK-51 GWS. The development effort focuses on integration of a 155mm guided projectile in the MK-51 GWS which includes modifications to address initialization, dimensional, gun launch, and automated handling interface differences. Components affected by the integration of a 155mm guided projectile include the guided projectile, the propelling charge, the MK-51 Gun Weapon System, and the Total Ship Computing Environment. The program was funded under PE 0204202N DDG 1000 in FY 2017. A round selection is planned for August 2017 where initial performance characteristics will be determined and subsequently matured through FY 2019. The capability is planned for Initial Operational Capability in 4QFY2021. This is not a new start.

Project 2038: The Advanced Minor Caliber Gun will support non-recurring engineering, component integration, and testing efforts required for capability upgrades to the MK38 Mod 2, a minor caliber gun weapon system.

Project 3401: The Hyper Velocity Projectile (HVP) Block (BLK) 0 effort will double the range of the current 5-inch conventional ammunition while meeting multi-mission operational requirements for Anti-Surface Warfare (ASuW), Anti-Air Warfare (AAW), and Naval Surface Fire Support (NSFS) missions. This project executes pre milestone (MS) B activities and begins preparations for the Engineering, Manufacturing, and Development Phase planned for FY 2019. This includes development of system specifications and HVP BLK 0 interface control documents to support transition to MS B. HVP tactical subcomponent and integration risk reduction efforts will be initiated to support MS B Acquisition Milestone and Competitive E&MD Award. The Hyper Velocity Projectile project was previously funded under the PE 0603925N / Directed Energy and Electronic Weapon Systems (Proj: 3370 Railgun) and 0603795N / Land Attack Tech (Proj: 3370 Railgun). This is not a new start.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2018 Navy				Date: October 2017		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 04: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0603795N / Land Attack Tech				
B. Program Change Summary (\$ in Millions)		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget		0.887	6.015	15.608	-	15.608
Current President's Budget		0.887	6.015	33.568	2.100	35.668
Total Adjustments		0.000	0.000	17.960	2.100	20.060
• Congressional General Reductions		-	-			
• Congressional Directed Reductions		-	-			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-	-			
• Program Adjustments		0.000	0.000	17.937	-	17.937
• Rate/Misc Adjustments		0.000	0.000	0.023	2.100	2.123
Change Summary Explanation						
Increase of +\$18.023M supports establishment of project unit 2020 Advanced Gun System Projectile (\$18.000M) and miscellaneous adjustments.						
Increase of +\$2.1M FY18 RDT&E is required to address emergent warfighting readiness requirements, as profiled in JUONS CC-0558 for project unit 2038 The Advanced Minor Caliber Gun.						

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2018 Navy	<b>Date:</b> October 2017
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<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 05: System Development &amp; Demonstration (SDD)</i>					<b>R-1 Program Element (Number/Name)</b> PE 0604230N / <i>Warfare Support System</i>							
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	65.067	5.740	13.237	14.167	5.400	19.567	-	-	-	-	-	-
3326: <i>NSW Rapid Capabilities Development for CIEC</i>	18.942	2.303	6.708	8.173	5.400	13.573	-	-	-	-	-	-
4011: <i>Naval Coastal Warfare Surv and C4I Sys</i>	42.043	2.879	3.406	3.886	-	3.886	-	-	-	-	-	-
9C86: <i>Combatant Craft Replacement</i>	4.082	0.558	3.123	2.108	-	2.108	-	-	-	-	-	-

**A. Mission Description and Budget Item Justification**

AMENDED BUDGET REQUEST JUSTIFICATION: \$5.4 million OCO is required to address emergency warfighting readiness requirements. Project 3326 NSW Rapid Capabilities Development for Combatting Irregular and Expeditionary Challenges. Funding for this effort will provide for the rapid development, integration, testing and assessment of prototype capabilities to meet OCO based warfighter requirements to combat emerging force protection threats and will leverage Counter-Unmanned Aerial Systems (C-UAS) prototype work. This includes developing small unmanned aerial systems (UAS) precision strike capabilities to counter enemy modified small drone systems and improve NSW tactical edge in the near-peer and counter terrorism fight. This effort is not a new start and this request was included in the OCO section of the Navy's FY2018 Unfunded Priorities List sent to Congress on 30 May 2017.

The Rapid Capabilities Development (RCD) project supports the Naval Special Warfare Branch to identify and assess available technologies that confront current and future irregular and expeditionary challenges. The program's development efforts are focused on the enhancement/advancement of existing technologies to fill urgent and emergent capability gaps for Naval Special Warfare (NSW). Program funding provides for the development, integration, testing, validation and combat demonstration of identified technologies and/or packages of technologies to meet: Overseas Contingency Operations (OCO) goals, service common and NSW program technology challenges, and technology obsolescence issues of developed capabilities. The goal of the RCD project is to develop expeditionary/operational capabilities for NSW that enable its force to conduct cross-domain special reconnaissance, counterterrorism, direct action, irregular warfare, and foreign internal defense; and fulfill urgent/emergent needs within a 6-24 month timeframe.

As part of the Naval Coastal Warfare Surveillance program, Identity Dominance System (IDS) supports the Joint Personnel Identity (JPI) program. MESF forces have a mobile security mission that requires methodologies, procedures, equipment and the communications capacity to identify individuals who represent a potential threat as a means to deter and eliminate individuals from conducting asymmetric/non-traditional attacks upon friendly forces, high value assets and coastal areas that NCW is charged with protecting. The Visit, Board, Search and Seizure (VBSS) teams conducting Expanded Maritime Interception Operations also have a similar requirement to identify individuals. The development of a device to support identity functions is captured in the Identity Dominance System Capability Development Document (IDS CDD) and implemented in the Identity Dominance System Capability Production Document (IDS CPD). IDS units are used in the following environments: aboard ship and ashore in ports, the littorals and extended inland field environments worldwide. IDS is employed in maritime and very austere ashore environments and carried by individuals who are part of ship boarding parties and dismounted patrols. These mission and environmental demands dictate a portable, lightweight, rugged, and reliable system with intuitive and user friendly features. IDS biometric modalities may differ by mission profile, requiring the authoritative response to the On-Scene Commander/Boarding Officer on whether to detain or further investigate an individual of interest.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2018 Navy				Date: October 2017		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
1319: Research, Development, Test & Evaluation, Navy / BA 05: System Development & Demonstration (SDD)		PE 0604230N / Warfare Support System				
<p>The Navy Expeditionary C4I project supports the Navy Expeditionary Combat Command (NECC) mission to detect, deter or interdict potential threats to DoN assets using agile, modular and scalable technology. NECC units have a number of current and future Command, Control, Communications, Computers &amp; Intelligence (C4I) technological requirements for Tactical/Command Operations Center, tactical vehicles, combatant craft, and dismounted personnel. NECC operations require units to maintain effective command and control, develop and display a common tactical picture, and share intelligence and current operational information with higher headquarters, subordinate units, joint forces and coalition allies. Small, Medium, and Large Scale Communication Systems (LSCS) are the C4I hub for the NECC; Navy Enterprise Tactical Command and Control (NETC2) is the converged LSCS baseline. Future C4I research and development include enhanced information transport, network cyber security posture, assured communications in denied environments along with agility and mobility. Funding is required for testing and evaluation of cyber security issue associated with obsolescence of network items and if not addressed will impact the ability of the Program Office to maintain system accreditation under Risk Management Framework (RMF) revoking multiple LSCS assets authority to connectivity on the Department of Defense Information Network (DoDIN). Efforts are in alignment with NECC's strategic Expeditionary Warfare Improvement Program (EXWIP) Integrated Priority Capability List (IPCL) priorities and maintain alignment with greater DoD initiatives, such as Joint Information Environment (JIE), Mission Partner Environment (MPE) in order to maintain interoperability and drive down DoN enterprise costs.</p> <p>Combatant Craft Replacement will provide second generation Riverine Multi Mission Craft that will replace in-service Riverine Patrol Boats (RPBs) and Riverine Assault Boats (RABs). Combatant Craft replacements will: conduct inland waterway patrol and interdiction to preserve the rivers for friendly use as lines of communications; deny the use of rivers and waterways to waterborne and immediate shore sited hostile forces by barrier and interdiction operations; and, with augmentation of ground and air forces, locate and destroy hostile forces within a riparian area. Specific mission and capabilities will be identified in an Initial Capabilities Document (ICD). RDT&amp;E funding will fund feasibility studies and procurement of mock-ups and prototype craft to demonstrate capabilities prior to production craft procurement.</p>						
B. Program Change Summary (\$ in Millions)		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget		5.875	13.237	12.251	-	12.251
Current President's Budget		5.740	13.237	14.167	5.400	19.567
Total Adjustments		-0.135	0.000	1.916	5.400	7.316
• Congressional General Reductions		-	-			
• Congressional Directed Reductions		-	-			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-0.135	0.000			
• Program Adjustments		0.000	0.000	-0.003	-	-0.003
• Rate/Misc Adjustments		0.000	0.000	1.919	5.400	7.319
Change Summary Explanation						
FY2018 OCO +5.400 to identify, assess, integrate and test prototype technologies focused on Counter Unmanned Aerial Systems (CUAS).						