Department of Defense
Fiscal Year (FY) 2015 Budget Estimates

March 2014

Navy

Justification Book Volume 4

Research, Development, Test & Evaluation, Navy

Budget Activity 6

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Table of Volumes

Budget Activities 1, 2, and 3.....Volume 1

Budget Activity 4.....Volume 2

Budget Activity 5.....Volume 3

Budget Activity 6.....Volume 4

Budgeet Activity 7.....Volume 5

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Volume 4 Table of Contents

Introduction and Explanation of Contents.....Volume 4 - v

Comptroller Exhibit R-1..... Volume 4 - vii

Master Program Element Table of Contents (by Budget Activity then Line Item Number)..... Volume 4 - xxi

Master Program Element Table of Contents (Alphabetically by Program Element Title)..... Volume 4 - xxxvii

Program Element Table of Contents (by Budget Activity then Line Item Number).....Volume 4 - xlix

Program Element Table of Contents (Alphabetically by Program Element Title).....Volume 4 - li

Exhibit R-2's..... Volume 4 - 1

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Research, Development, Test and Evaluation, Navy

For expenses necessary for basic and applied scientific research, development, test and evaluation, including maintenance, rehabilitation, lease, and operation of facilities and equipment, $16,266,335,000, to remain available for obligation until September 30, 2016.

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Department of Defense
FY 2015 President's Budget
Exhibit R-1 FY 2015 President's Budget
Total Obligational Authority
(Dollars in Thousands)

21 Feb 2014

Summary Recap of Budget Activities	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base
Basic Research	567,496	619,234		619,234	576,339
Applied Research	792,372	859,469		859,469	820,883
Advanced Technology Development	604,615	623,614		623,614	595,014
Advanced Component Development & Prototypes	3,839,612	4,321,104		4,321,104	4,591,812
System Development & Demonstration	4,896,330	4,250,970		4,250,970	5,419,108
Management Support	1,103,563	861,314		861,314	977,151
Operational Systems Development	3,749,489	3,410,624		3,445,050	3,286,028
Total Research, Development, Test & Evaluation	15,553,477	14,946,329		14,980,755	16,266,335
Summary Recap of FYDP Programs					
Strategic Forces	133,392	152,999		152,999	145,185
General Purpose Forces	1,197,495	1,320,713		1,320,713	1,351,064
Intelligence and Communications	1,095,183	659,017		659,017	764,066
Research and Development	11,768,699	11,344,579		11,344,579	12,780,652
Central Supply and Maintenance	89,222	83,973		83,973	62,684
Administration and Associated Activities	2,668				
Classified Programs	1,266,818	1,385,048	34,426	1,419,474	1,162,684
Total Research, Development, Test & Evaluation	15,553,477	14,946,329	34,426	14,980,755	16,266,335
Summary Recap of Non-RDT&E Title FYDP Programs					
Mobility Forces	40,137	44,993		44,993	
Total Research, Development, Test & Evaluation	40,137	44,993		44,993	

R-1C1: FY 2015 President's Budget (Published Version), as of February 21, 2014 at 08:10:30

Department of the Navy
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Summary Recap of FYDP Programs					
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Classified Programs	1,266,818	1,385,048	34,426	1,419,474	1,162,684
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R-1C1: FY 2015 President's Budget (Published Version), as of February 21, 2014 at 08:10:30

Department of the Navy
FY 2015 President's Budget
Exhibit R-1 FY 2015 President's Budget
Total Obligational Authority
(Dollars in Thousands)

21 Feb 2014

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

Line No	Program Element Number	Item	Act	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base	Sec
1	0601103N	University Research Initiatives	01	117,855	112,617		112,617	113,908	U
2	0601152N	In-House Laboratory Independent Research	01	16,561	18,230		18,230	18,734	U
3	0601153N	Defense Research Sciences	01	433,080	488,387		488,387	443,697	U
	Basic Research			567,496	619,234		619,234	576,339	
4	0602114N	Power Projection Applied Research	02	92,396	104,513		104,513	95,753	U
5	0602123N	Force Protection Applied Research	02	188,995	170,288		170,288	139,496	U
6	0602131M	Marine Corps Landing Force Technology	02	41,687	47,334		47,334	45,831	U
7	0602235N	Common Picture Applied Research	02	37,643	34,136		34,136	43,541	U
8	0602236N	Warfighter Sustainment Applied Research	02	40,162	49,688		49,688	46,923	U
9	0602271N	Electromagnetic Systems Applied Research	02	73,985	97,690		97,690	107,872	U
10	0602435N	Ocean Warfighting Environment Applied Research	02	54,912	45,685		45,685	45,388	U
11	0602651M	Joint Non-Lethal Weapons Applied Research	02	5,234	6,059		6,059	5,887	U
12	0602747N	Undersea Warfare Applied Research	02	86,091	103,041		103,041	86,880	U
13	0602750N	Future Naval Capabilities Applied Research	02	143,176	169,710		169,710	170,786	U
14	0602782N	Mine and Expeditionary Warfare Applied Research	02	28,091	31,325		31,325	32,526	U
	Applied Research			792,372	859,469		859,469	820,883	
15	0603114N	Power Projection Advanced Technology	03	51,739	48,201		48,201	37,734	U
16	0603123N	Force Protection Advanced Technology	03	16,273	28,286		28,286	25,831	U
17	0603271N	Electromagnetic Systems Advanced Technology	03	60,098	56,179		56,179	64,623	U
18	0603640M	USMC Advanced Technology Demonstration (ATD)	03	117,288	132,336		132,336	128,397	U
19	0603651M	Joint Non-Lethal Weapons Technology Development	03	10,179	11,853		11,853	11,506	U

R-1C1: FY 2015 President's Budget (Published Version), as of February 21, 2014 at 08:10:30

Department of the Navy
FY 2015 President's Budget
Exhibit R-1 FY 2015 President's Budget
Total Obligational Authority
(Dollars in Thousands)

21 Feb 2014

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

Line No	Program Element Number	Item	Act	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base	Sec
20	0603673N	Future Naval Capabilities Advanced Technology Development	03	254,987	252,836		252,836	256,144	U
21	0603729N	Warfighter Protection Advanced Technology	03	39,086	40,460		40,460	4,838	U
22	0603747N	Undersea Warfare Advanced Technology	03	9,164				9,985	U
23	0603758N	Navy Warfighting Experiments and Demonstrations	03	45,801	51,463		51,463	53,956	U
24	0603782N	Mine and Expeditionary Warfare Advanced Technology	03		2,000		2,000	2,000	U
		Advanced Technology Development		604,615	623,614		623,614	595,014	
25	0603207N	Air/Ocean Tactical Applications	04	31,357	39,246		39,246	40,429	U
26	0603216N	Aviation Survivability	04	7,970	5,591		5,591	4,325	U
27	0603237N	Deployable Joint Command and Control	04	3,451	3,262		3,262	2,991	U
28	0603251N	Aircraft Systems	04	21,829	10,074		10,074	12,651	U
29	0603254N	ASW Systems Development	04	7,306	6,964		6,964	7,782	U
30	0603261N	Tactical Airborne Reconnaissance	04	4,812	5,257		5,257	5,275	U
31	0603382N	Advanced Combat Systems Technology	04	1,345	1,563		1,563	1,646	U
32	0603502N	Surface and Shallow Water Mine Countermeasures	04	160,710	160,040		160,040	100,349	U
33	0603506N	Surface Ship Torpedo Defense	04	83,709	85,649		85,649	52,781	U
34	0603512N	Carrier Systems Development	04	97,668	80,899		80,899	5,959	U
35	0603525N	PILOT FISH	04	91,528	108,713		108,713	148,865	U
36	0603527N	RETRACT LARCH	04	75,517	9,316		9,316	25,365	U
37	0603536N	RETRACT JUNIPER	04	82,694	77,108		77,108	80,477	U
38	0603542N	Radiological Control	04	706	762		762	669	U
39	0603553N	Surface ASW	04	3,841	2,349		2,349	1,060	U

R-1C1: FY 2015 President's Budget (Published Version), as of February 21, 2014 at 08:10:30

Department of the Navy
FY 2015 President's Budget
Exhibit R-1 FY 2015 President's Budget
Total Obligational Authority
(Dollars in Thousands)

21 Feb 2014

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

Line No	Program Element Number	Item	Act	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base	Sec
40	0603561N	Advanced Submarine System Development	04	500,161	850,062		850,062	70,551	U
41	0603562N	Submarine Tactical Warfare Systems	04	8,505	8,764		8,764	8,044	U
42	0603563N	Ship Concept Advanced Design	04	22,193	17,501		17,501	17,864	U
43	0603564N	Ship Preliminary Design & Feasibility Studies	04	35,737	38,117		38,117	23,716	U
44	0603570N	Advanced Nuclear Power Systems	04	228,861	428,933		428,933	499,961	U
45	0603573N	Advanced Surface Machinery Systems	04	26,642	18,144		18,144	21,026	U
46	0603576N	CHALK EAGLE	04	453,935	518,804		518,804	542,700	U
47	0603581N	Littoral Combat Ship (LCS)	04	374,966	210,217		210,217	88,734	U
48	0603582N	Combat System Integration	04	45,131	4,396		4,396	20,881	U
49	0603595N	Ohio Replacement	04					849,277	U
50	0603596N	LCS Mission Modules	04		161,771		161,771	196,948	U
51	0603597N	Automated Test and Re-Test (ATRT)	04		10,005		10,005	8,115	U
52	0603609N	Conventional Munitions	04	6,717	8,404		8,404	7,603	U
53	0603611M	Marine Corps Assault Vehicles	04	83,182	122,967		122,967	105,749	U
54	0603635M	Marine Corps Ground Combat/Support System	04	8,400	1,489		1,489	1,342	U
55	0603654N	Joint Service Explosive Ordnance Development	04	41,468	34,958		34,958	21,399	U
56	0603658N	Cooperative Engagement	04	50,058	53,572		53,572	43,578	U
57	0603713N	Ocean Engineering Technology Development	04	6,370	7,696		7,696	7,764	U
58	0603721N	Environmental Protection	04	19,194	18,850		18,850	13,200	U
59	0603724N	Navy Energy Program	04	85,577	45,618		45,618	69,415	U
60	0603725N	Facilities Improvement	04	3,116	3,019		3,019	2,588	U

R-1C1: FY 2015 President's Budget (Published Version), as of February 21, 2014 at 08:10:30

Department of the Navy
FY 2015 President's Budget
Exhibit R-1 FY 2015 President's Budget
Total Obligational Authority
(Dollars in Thousands)

21 Feb 2014

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61	0603734N	CHALK CORAL	04	41,498	124,451		124,451	176,301	U
62	0603739N	Navy Logistic Productivity	04	3,452	3,847		3,847	3,873	U
63	0603746N	RETRACT MAPLE	04	290,796	308,131		308,131	376,028	U
64	0603748N	LINK PLUMERIA	04	153,811	121,189		121,189	272,096	U
65	0603751N	RETRACT ELM	04	115,681	56,358		56,358	42,233	U
66	0603764N	LINK EVERGREEN	04	61,986	55,378		55,378	46,504	U
67	0603787N	Special Processes	04	43,810	48,842		48,842	25,109	U
68	0603790N	NATO Research and Development	04	8,589	7,502		7,502	9,659	U
69	0603795N	Land Attack Technology	04	14,274				318	U
70	0603851M	Joint Non-Lethal Weapons Testing	04	41,191	49,278		49,278	40,912	U
71	0603860N	Joint Precision Approach and Landing Systems - Dem/Val	04	120,491	156,178		156,178	54,896	U
72	0603889N	Counterdrug RDT&E Projects	04	500					U
73	0603925N	Directed Energy and Electric Weapon Systems	04					58,696	U
74	0604112N	Gerald R. Ford Class Nuclear Aircraft Carrier (CVN 78 - 80)	04					43,613	U
75	0604122N	Remote Minehunting System (RMS)	04					21,110	U
76	0604272N	Tactical Air Directional Infrared Countermeasures (TADIRCM)	04	66,196	33,906		33,906	5,657	U
77	0604279N	ASE Self-Protection Optimization	04	725	169		169	8,033	U
78	0604454N	LX (R)	04					36,859	U
79	0604653N	Joint Counter Radio Controlled IED Electronic Warfare (JCREW)	04	42,421	15,874		15,874	15,227	U
80	0604659N	Precision Strike Weapons Development Program	04	5,166	2,257		2,257		U

Department of the Navy
FY 2015 President's Budget
Exhibit R-1 FY 2015 President's Budget
Total Obligational Authority
(Dollars in Thousands)

21 Feb 2014

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

Line No	Program Element Number	Item	Act	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base	Sec
81	0604707N	Space and Electronic Warfare (SEW) Architecture/Engineering Support	04	26,279	31,256		31,256	22,393	U
82	0604786N	Offensive Anti-Surface Warfare Weapon Development	04	77,609	90,985		90,985	202,939	U
83	0605812M	Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Development Ph	04	35,563	50,362		50,362	11,450	U
84	0303354N	ASW Systems Development - MIP	04	12,077	4,908		4,908	6,495	U
85	0304270N	Electronic Warfare Development - MIP	04	2,841	153		153	332	U
		Advanced Component Development & Prototypes		3,839,612	4,321,104		4,321,104	4,591,812	
86	0603208N	Training System Aircraft	05					25,153	U
87	0604212N	Other Helo Development	05	22,899	25,458		25,458	46,154	U
88	0604214N	AV-8B Aircraft - Eng Dev	05	16,128	33,325		33,325	25,372	U
89	0604215N	Standards Development	05	67,801	68,497		68,497	53,712	U
90	0604216N	Multi-Mission Helicopter Upgrade Development	05	6,035	17,565		17,565	11,434	U
91	0604218N	Air/Ocean Equipment Engineering	05	3,658	4,026		4,026	2,164	U
92	0604221N	P-3 Modernization Program	05	3,170	791		791	1,710	U
93	0604230N	Warfare Support System	05	9,983	9,725		9,725	9,094	U
94	0604231N	Tactical Command System	05	65,416	63,438		63,438	70,248	U
95	0604234N	Advanced Hawkeye	05	125,194	107,041		107,041	193,200	U
96	0604245N	H-1 Upgrades	05	27,724	47,123		47,123	44,115	U
97	0604261N	Acoustic Search Sensors	05	32,507	29,195		29,195	23,227	U
98	0604262N	V-22A	05	44,294	43,084		43,084	61,249	U
99	0604264N	Air Crew Systems Development	05	2,437	9,151		9,151	15,014	U

R-1C1: FY 2015 President's Budget (Published Version), as of February 21, 2014 at 08:10:30

Department of the Navy
FY 2015 President's Budget
Exhibit R-1 FY 2015 President's Budget
Total Obligational Authority
(Dollars in Thousands)

21 Feb 2014

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

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100	0604269N	EA-18	05	11,769	11,138		11,138	18,730	U
101	0604270N	Electronic Warfare Development	05	46,851	34,964		34,964	28,742	U
102	0604273N	Executive Helo Development	05	46,203	94,235		94,235	388,086	U
103	0604274N	Next Generation Jammer (NGJ)	05	153,369	157,796		157,796	246,856	U
104	0604280N	Joint Tactical Radio System - Navy (JTRS-Navy)	05	197,819	3,259		3,259	7,106	U
105	0604307N	Surface Combatant Combat System Engineering	05	232,441	206,298		206,298	189,112	U
106	0604311N	LPD-17 Class Systems Integration	05	741	1,214		1,214	376	U
107	0604329N	Small Diameter Bomb (SDB)	05	28,883	24,925		24,925	71,849	U
108	0604366N	Standard Missile Improvements	05	46,966	67,082		67,082	53,198	U
109	0604373N	Airborne MCM	05	60,424	109,354		109,354	38,941	U
110	0604376M	Marine Air Ground Task Force (MAGTF) Electronic Warfare (EW) for Aviation	05	9,647	10,080		10,080	7,832	U
111	0604378N	Naval Integrated Fire Control - Counter Air Systems Engineering	05	35,872	21,413		21,413	15,263	U
112	0604404N	Unmanned Carrier Launched Airborne Surveillance and Strike (UCLASS) System	05	99,479	121,673		121,673	403,017	U
113	0604501N	Advanced Above Water Sensors	05	235,176	157,871		157,871	20,409	U
114	0604503N	SSN-688 and Trident Modernization	05	74,091	85,711		85,711	71,565	U
115	0604504N	Air Control	05	5,231	10,754		10,754	29,037	U
116	0604512N	Shipboard Aviation Systems	05	58,179	69,615		69,615	122,083	U
117	0604518N	Combat Information Center Conversion	05	817					U
118	0604522N	Advanced Missile Defense Radar (AMDR) System	05					144,706	U
119	0604558N	New Design SSN	05	81,162	62,446		62,446	72,695	U

R-1C1: FY 2015 President's Budget (Published Version), as of February 21, 2014 at 08:10:30

Department of the Navy
FY 2015 President's Budget
Exhibit R-1 FY 2015 President's Budget
Total Obligational Authority
(Dollars in Thousands)

21 Feb 2014

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

Line No	Program Element Number	Item	Act	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base	Sec
120	0604562N	Submarine Tactical Warfare System	05	43,555	49,135		49,135	38,985	U
121	0604567N	Ship Contract Design/ Live Fire T&E	05	165,908	187,421		187,421	48,470	U
122	0604574N	Navy Tactical Computer Resources	05	3,552	3,689		3,689	3,935	U
123	0604580N	Virginia Payload Module (VPM)	05		59,120		59,120	132,602	U
124	0604601N	Mine Development	05	6,934	5,041		5,041	19,067	U
125	0604610N	Lightweight Torpedo Development	05	45,907	26,444		26,444	25,280	U
126	0604654N	Joint Service Explosive Ordnance Development	05	7,394	8,897		8,897	8,985	U
127	0604703N	Personnel, Training, Simulation, and Human Factors	05	5,224	4,233		4,233	7,669	U
128	0604727N	Joint Standoff Weapon Systems	05	5,490	442		442	4,400	U
129	0604755N	Ship Self Defense (Detect & Control)	05	78,227	95,604		95,604	56,889	U
130	0604756N	Ship Self Defense (Engage: Hard Kill)	05	52,816	43,303		43,303	96,937	U
131	0604757N	Ship Self Defense (Engage: Soft Kill/EW)	05	125,204	114,799		114,799	134,564	U
132	0604761N	Intelligence Engineering	05		1,984		1,984	200	U
133	0604771N	Medical Development	05	37,426	28,458		28,458	8,287	U
134	0604777N	Navigation/ID System	05	38,949	47,428		47,428	29,504	U
135	0604800M	Joint Strike Fighter (JSF) - EMD	05	639,059	415,727		415,727	513,021	U
136	0604800N	Joint Strike Fighter (JSF) - EMD	05	642,349	440,745		440,745	516,456	U
137	0605013M	Information Technology Development	05	11,540	5,564		5,564	2,887	U
138	0605013N	Information Technology Development	05	64,238	47,807		47,807	66,317	U
139	0605212N	CH-53K RDTE	05	535,552	462,280		462,280	573,187	U
140	0605220N	Ship to Shore Connector (SSC)	05					67,815	U

R-1C1: FY 2015 President's Budget (Published Version), as of February 21, 2014 at 08:10:30

Department of the Navy
FY 2015 President's Budget
Exhibit R-1 FY 2015 President's Budget
Total Obligational Authority
(Dollars in Thousands)

21 Feb 2014

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141	0605450N	Joint Air-to-Ground Missile (JAGM)	05					6,300	U
142	0605500N	Multi-mission Maritime Aircraft (MMA)	05	391,364	272,352		272,352	308,037	U
143	0204202N	DDG-1000	05	120,842	187,904		187,904	202,522	U
144	0304231N	Tactical Command System - MIP	05	1,072	2,140		2,140	1,011	U
145	0304785N	Tactical Cryptologic Systems	05	21,362	9,406		9,406	10,357	U
146	0305124N	Special Applications Program	05		22,800		22,800	23,975	U
		System Development & Demonstration		4,896,330	4,250,970		4,250,970	5,419,108	
147	0604256N	Threat Simulator Development	06	27,843	43,261		43,261	45,272	U
148	0604258N	Target Systems Development	06	53,171	71,872		71,872	79,718	U
149	0604759N	Major T&E Investment	06	32,989	38,033		38,033	123,993	U
150	0605126N	Joint Theater Air and Missile Defense Organization	06	5,829	1,352		1,352	4,960	U
151	0605152N	Studies and Analysis Support - Navy	06	15,996	5,553		5,553	8,296	U
152	0605154N	Center for Naval Analyses	06	41,573	46,655		46,655	45,752	U
153	0605502N	Small Business Innovative Research	06	289,844					U
154	0605804N	Technical Information Services	06	1,230	637		637	876	U
155	0605853N	Management, Technical & International Support	06	44,635	83,494		83,494	72,070	U
156	0605856N	Strategic Technical Support	06	2,935	3,221		3,221	3,237	U
157	0605861N	RDT&E Science and Technology Management	06	64,317	72,725		72,725	73,033	U
158	0605863N	RDT&E Ship and Aircraft Support	06	130,840	141,778		141,778	138,304	U
159	0605864N	Test and Evaluation Support	06	341,126	301,219		301,219	336,286	U
160	0605865N	Operational Test and Evaluation Capability	06	15,109	16,565		16,565	16,658	U

R-1C1: FY 2015 President's Budget (Published Version), as of February 21, 2014 at 08:10:30

Department of the Navy
FY 2015 President's Budget
Exhibit R-1 FY 2015 President's Budget
Total Obligational Authority
(Dollars in Thousands)

21 Feb 2014

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

Line No	Program Element Number	Item	Act	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base	Sec
161	0605866N	Navy Space and Electronic Warfare (SEW) Support	06	6,091	3,264		3,264	2,505	U
162	0605867N	SEW Surveillance/Reconnaissance Support	06	7,453	7,134		7,134	8,325	U
163	0605873M	Marine Corps Program Wide Support	06	17,352	24,054		24,054	17,866	U
164	0305885N	Tactical Cryptologic Activities	06	2,562	497		497		U
165	0909999N	Financing for Cancelled Account Adjustments	06	2,668					U
		Management Support		1,103,563	861,314		861,314	977,151	
167	0604227N	HARPOON Modifications	07		699		699		U
168	0604402N	Unmanned Combat Air Vehicle (UCAV) Advanced Component and Prototype Development	07	128,135	20,961		20,961	35,949	U
169	0604766M	Marine Corps Data Systems	07		35		35	215	U
170	0605525N	Carrier Onboard Delivery (COD) Follow On	07		1,230		1,230	8,873	U
171	0605555N	Strike Weapons Development	07		13,757		13,757		U
172	0101221N	Strategic Sub & Weapons System Support	07	83,771	98,057		98,057	96,943	U
173	0101224N	SSBN Security Technology Program	07	30,861	31,755		31,755	30,057	U
174	0101226N	Submarine Acoustic Warfare Development	07	1,299	1,464		1,464	4,509	U
175	0101402N	Navy Strategic Communications	07	17,461	21,723		21,723	13,676	U
176	0203761N	Rapid Technology Transition (RTT)	07	21,906	8,561		8,561	12,480	U
177	0204136N	F/A-18 Squadrons	07	150,477	112,618		112,618	76,216	U
178	0204152N	E-2 Squadrons	07	7,871	1,971		1,971		U
179	0204163N	Fleet Telecommunications (Tactical)	07	14,304	23,422		23,422	27,281	U
180	0204228N	Surface Support	07	2,999	2,374		2,374	2,878	U

R-1C1: FY 2015 President's Budget (Published Version), as of February 21, 2014 at 08:10:30

Department of the Navy
FY 2015 President's Budget
Exhibit R-1 FY 2015 President's Budget
Total Obligational Authority
(Dollars in Thousands)

21 Feb 2014

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

Line No	Program Element Number	Item	Act	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base	Sec
181	0204229N	Tomahawk and Tomahawk Mission Planning Center (TMPC)	07	10,154	12,407		12,407	32,385	U
182	0204311N	Integrated Surveillance System	07	40,658	41,609		41,609	39,371	U
183	0204413N	Amphibious Tactical Support Units (Displacement Craft)	07	6,091	4,382		4,382	4,609	U
184	0204460M	Ground/Air Task Oriented Radar (G/ATOR)	07	70,217	78,208		78,208	99,106	U
185	0204571N	Consolidated Training Systems Development	07	16,798	39,124		39,124	39,922	U
186	0204574N	Cryptologic Direct Support	07	1,610	2,703		2,703	1,157	U
187	0204575N	Electronic Warfare (EW) Readiness Support	07	17,867	19,563		19,563	22,067	U
188	0205601N	HARM Improvement	07	12,586	13,586		13,586	17,420	U
189	0205604N	Tactical Data Links	07	79,362	169,875		169,875	151,208	U
190	0205620N	Surface ASW Combat System Integration	07	24,465	31,863		31,863	26,366	U
191	0205632N	MK-48 ADCAP	07	35,115	10,080		10,080	25,952	U
192	0205633N	Aviation Improvements	07	71,945	78,608		78,608	106,936	U
193	0205658N	Navy Science Assistance Program	07	3,131					U
194	0205675N	Operational Nuclear Power Systems	07	79,229	116,928		116,928	104,023	U
195	0206313M	Marine Corps Communications Systems	07	162,537	160,773		160,773	77,398	U
196	0206335M	Common Aviation Command and Control System (CAC2S)	07					32,495	U
197	0206623M	Marine Corps Ground Combat/Supporting Arms Systems	07	146,255	116,061		116,061	156,626	U
198	0206624M	Marine Corps Combat Services Support	07	56,390	35,647		35,647	20,999	U
199	0206625M	USMC Intelligence/Electronic Warfare Systems (MIP)	07	21,369	33,394		33,394	14,179	U
200	0207161N	Tactical AIM Missiles	07	18,889	15,453		15,453	47,258	U
201	0207163N	Advanced Medium Range Air-to-Air Missile (AMRAAM)	07	2,669	2,613		2,613	10,210	U

R-1C1: FY 2015 President's Budget (Published Version), as of February 21, 2014 at 08:10:30

Department of the Navy
FY 2015 President's Budget
Exhibit R-1 FY 2015 President's Budget
Total Obligational Authority
(Dollars in Thousands)

21 Feb 2014

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

Line No	Program Element Number	Item	Act	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base	Sec
202	0208058N	Joint High Speed Vessel (JHSV)	07	1,759	986		986		U
206	0303109N	Satellite Communications (SPACE)	07	179,029	66,196		66,196	41,829	U
207	0303138N	Consolidated Afloat Network Enterprise Services (CANES)	07	15,510	24,476		24,476	22,780	U
208	0303140N	Information Systems Security Program	07	27,723	23,514		23,514	23,053	U
209	0303150M	WWMCCS/Global Command and Control System	07	71				296	U
211	0305149N	COBRA JUDY	07	14,460					U
212	0305160N	Navy Meteorological and Ocean Sensors-Space (METOC)	07	738	742		742	359	U
213	0305192N	Military Intelligence Program (MIP) Activities	07	7,962	4,799		4,799	6,166	U
214	0305204N	Tactical Unmanned Aerial Vehicles	07	6,956	8,381		8,381	8,505	U
215	0305207N	Manned Reconnaissance Systems	07	28,099					U
216	0305208M	Distributed Common Ground/Surface Systems	07	26,540	5,527		5,527	11,613	U
217	0305208N	Distributed Common Ground/Surface Systems	07	13,453	17,718		17,718	18,146	U
218	0305220N	RQ-4 UAV	07	612,682	375,235		375,235	498,003	U
219	0305231N	MQ-8 UAV	07	83,827	41,713		41,713	47,294	U
220	0305232M	RQ-11 UAV	07	83				718	U
221	0305233N	RQ-7 UAV	07	791	710		710	851	U
222	0305234N	Small (Level 0) Tactical UAS (STUASL0)	07	9,204	5,013		5,013	4,813	U
223	0305239M	RQ-21A	07	22,924	11,122		11,122	8,192	U
224	0305241N	Multi-Intelligence Sensor Development	07		28,851		28,851	22,559	U
225	0305242M	Unmanned Aerial Systems (UAS) Payloads (MIP)	07					2,000	U
226	0308601N	Modeling and Simulation Support	07	5,217	5,116		5,116	4,719	U

R-1C1: FY 2015 President's Budget (Published Version), as of February 21, 2014 at 08:10:30

Department of the Navy
FY 2015 President's Budget
Exhibit R-1 FY 2015 President's Budget
Total Obligational Authority
(Dollars in Thousands)

21 Feb 2014

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

Line No	Program Element Number	Item	Act	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base	Sec
227	0702207N	Depot Maintenance (Non-IF)	07	20,387	28,042		28,042	21,168	U
228	0708011N	Industrial Preparedness	07	64,411	50,933		50,933	37,169	U
229	0708730N	Maritime Technology (MARITECH)	07	4,424	4,998		4,998	4,347	U
9999	9999999999	Classified Programs		1,266,818	1,385,048	34,426	1,419,474	1,162,684	U
		Operational Systems Development		3,749,489	3,410,624		3,445,050	3,286,028	
Total Research, Development, Test & Eval, Navy				15,553,477	14,946,329		14,980,755	16,266,335	

R-1C1: FY 2015 President's Budget (Published Version), as of February 21, 2014 at 08:10:30

Master Program Element Table of Contents (by Budget Activity then Line Item Number)

Budget Activity 01: Basic Research
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
1	01	0601103N	University Research Initiatives	Volume 1 - 1
2	01	0601152N	In-House Lab Independent Res	Volume 1 - 7
3	01	0601153N	Defense Research Sciences	Volume 1 - 25

Budget Activity 02: Applied Research
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
4	02	0602114N	Power Proj Applied Research	Volume 1 - 75
5	02	0602123N	Force Protection Applied Res	Volume 1 - 89
6	02	0602131M	Marine Corps Lndg Force Tech	Volume 1 - 111
7	02	0602235N	Common Picture Applied Research	Volume 1 - 143
8	02	0602236N	Warfighter Sustainment Applied Res	Volume 1 - 167
9	02	0602271N	Electromagnetic Systems Applied Research	Volume 1 - 187

Budget Activity 02: Applied Research
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
10	02	0602435N	Ocean Wrfghtg Env Applied Res	Volume 1 - 217
11	02	0602651M	JT Non-Lethal Wpns Applied Res	Volume 1 - 233
12	02	0602747N	Undersea Warfare Applied Res	Volume 1 - 239
13	02	0602750N	(U)Future Naval Capabilities Applied Research	Volume 1 - 249
14	02	0602782N	Mine & Exp Warfare Applied Res	Volume 1 - 289

Budget Activity 03: Advanced Technology Development (ATD)
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
15	03	0603114N	Power Projection Advanced Technology	Volume 1 - 297
16	03	0603123N	Force Protection Advanced Technology	Volume 1 - 303
17	03	0603271N	Electromagnetic Systems Advanced Technology	Volume 1 - 311
18	03	0603640M	MC Advanced Technology Demo	Volume 1 - 323
19	03	0603651M	JT Non-Lethal Wpns Tech Dev	Volume 1 - 361
20	03	0603673N	(U)Future Naval Capabilities Advanced Tech Dev	Volume 1 - 367
21	03	0603729N	Warfighter Protection Adv Tech	Volume 1 - 411

Budget Activity 03: Advanced Technology Development (ATD)
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
22	03	0603747N	Undersea Warfare Advanced Tech	Volume 1 - 419
23	03	0603758N	Navy Warfighting Exp & Demo	Volume 1 - 425
24	03	0603782N	Mine and Expeditionary Warfare Advanced Technology	Volume 1 - 431

Budget Activity 04: Advanced Component Development & Prototypes (ACD&P)
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
25	04	0603207N	Air/Ocean Tactical Applications	Volume 2 - 1
26	04	0603216N	Aviation Survivability	Volume 2 - 37
27	04	0603237N	Deployable JT Cmd & Control	Volume 2 - 53
28	04	0603251N	(U)AIRCRAFT SYSTEMS	Volume 2 - 59
29	04	0603254N	ASW Systems Development	Volume 2 - 69
30	04	0603261N	Tactical Airborne Reconnaissance	Volume 2 - 77
31	04	0603382N	Advanced Combat Systems Tech	Volume 2 - 83
32	04	0603502N	Surface & Shallow Water MCM	Volume 2 - 91
33	04	0603506N	Surface Ship Torpedo Defense	Volume 2 - 135

Budget Activity 04: Advanced Component Development & Prototypes (ACD&P)
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
34	04	0603512N	Carrier Systems Development	Volume 2 - 141
35	04	0603525N	(U)PILOT FISH	Volume 2 - 161
36	04	0603527N	(U)RETRACT LARCH	Volume 2 - 163
37	04	0603536N	(U)RETRACT JUNIPER	Volume 2 - 165
38	04	0603542N	Radiological Control	Volume 2 - 167
39	04	0603553N	Surface ASW	Volume 2 - 193
40	04	0603561N	Advanced Submarine System Development	Volume 2 - 201
41	04	0603562N	Submarine Tactical Warfare Sys	Volume 2 - 225
42	04	0603563N	Ship Concept Advanced Design	Volume 2 - 235
43	04	0603564N	Ship Prel Design & Feasibility Studies	Volume 2 - 251
44	04	0603570N	Advanced Nuclear Power Systems	Volume 2 - 279
45	04	0603573N	Advanced Surface Machinery Sys	Volume 2 - 287
46	04	0603576N	(U)CHALK EAGLE	Volume 2 - 295
47	04	0603581N	(U)LITTORAL COMBAT SHIP	Volume 2 - 299
48	04	0603582N	Combat System Integration	Volume 2 - 347
49	04	0603595N	(U)Ohio Replacement	Volume 2 - 365
50	04	0603596N	(U)LCS Mission Modules	Volume 2 - 381
51	04	0603597N	(U)Automated Test and Re-Test (ATRT)	Volume 2 - 407

Budget Activity 04: Advanced Component Development & Prototypes (ACD&P)
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
52	04	0603609N	Conventional Munitions	Volume 2 - 411
53	04	0603611M	Marine Corps Assault Vehicles	Volume 2 - 417
54	04	0603635M	Marine Corps Grnd Cmbt/Supt Sys	Volume 2 - 423
55	04	0603654N	JT Service Explosive Ordn Dev	Volume 2 - 433
56	04	0603658N	Cooperative Engagement	Volume 2 - 449
57	04	0603713N	Ocean Engineering Tech Dev	Volume 2 - 465
58	04	0603721N	Environmental Protection	Volume 2 - 475
59	04	0603724N	Navy Energy Program	Volume 2 - 493
60	04	0603725N	Facilities Improvement	Volume 2 - 513
61	04	0603734N	(U)CHALK CORAL	Volume 2 - 527
62	04	0603739N	Navy Logistic Productivity	Volume 2 - 529
63	04	0603746N	(U)RETRACT MAPLE	Volume 2 - 543
64	04	0603748N	(U)LINK PLUMERIA	Volume 2 - 545
65	04	0603751N	(U)RETRACT ELM	Volume 2 - 547
66	04	0603764N	(U)LINK EVERGREEN	Volume 2 - 549
67	04	0603787N	(U)SPECIAL PROCESSES	Volume 2 - 551
68	04	0603790N	NATO Research and Deve	Volume 2 - 555
69	04	0603795N	Land Attack Tech	Volume 2 - 559

Budget Activity 04: Advanced Component Development & Prototypes (ACD&P)
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
70	04	0603851M	Joint Non-Lethal Weapons Testing	Volume 2 - 563
71	04	0603860N	JT Precision Approach & Ldg Sys	Volume 2 - 571
72	04	0603889N	Counterdrug RDT&E Projects	Volume 2 - 591
73	04	0603925N	Directed Energy and Electric Weapon System	Volume 2 - 595
74	04	0604112N	Gerald R Ford Class Nuc Aircraft Carrier CVN 78-80	Volume 2 - 601
75	04	0604122N	Remote Minehunting System (RMS)	Volume 2 - 615
76	04	0604272N	Tact Air Dir Infrared CM (TADIRCM)	Volume 2 - 625
77	04	0604279N	(U)ASE Self Protection Optimization	Volume 2 - 635
78	04	0604454N	LX (R)	Volume 2 - 643
79	04	0604653N	JT Cntr Radio Controlled IED Elec War (JCREW)	Volume 2 - 649
80	04	0604659N	(U)Precision Strike Weapons Development Program	Volume 2 - 653
81	04	0604707N	SEW Architecture/Eng Support	Volume 2 - 657
82	04	0604786N	(U)Offensive Anti-Surface Warfare Weapon Dev	Volume 2 - 679
83	04	0605812M	(U)Joint Light Tactical Vehicle(JLTV) EMD	Volume 2 - 689
84	04	0303354N	ASW Systems Development - MIP	Volume 2 - 699
85	04	0304270N	Electronic Warfare Development - MIP	Volume 2 - 705

Budget Activity 05: System Development & Demonstration (SDD)
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
86	05	0603208N	Training System Aircraft	Volume 3 - 1
87	05	0604212N	Other Helicopter Development	Volume 3 - 9
88	05	0604214N	AV-8B Aircraft - Engine Dev	Volume 3 - 33
89	05	0604215N	Standards Development	Volume 3 - 41
90	05	0604216N	Multi-Mssn Helicopter Upgrade Dev	Volume 3 - 77
91	05	0604218N	Air/Ocean Equipment Engineering	Volume 3 - 87
92	05	0604221N	P-3 Modernization Program	Volume 3 - 97
93	05	0604230N	Warfare Support System	Volume 3 - 105
94	05	0604231N	Tactical Command System	Volume 3 - 119
95	05	0604234N	Advanced Hawkeye	Volume 3 - 161
96	05	0604245N	H-1 Upgrades	Volume 3 - 191
97	05	0604261N	Acoustic Search Sensors	Volume 3 - 203
98	05	0604262N	V-22A	Volume 3 - 213
99	05	0604264N	Air Crew Systems Development	Volume 3 - 223
100	05	0604269N	EA-18 Squadrons	Volume 3 - 233
101	05	0604270N	Electronic Warfare (EW) Dev	Volume 3 - 247

Budget Activity 05: System Development & Demonstration (SDD)
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
102	05	0604273N	(U)Executive Helo Development	Volume 3 - 275
103	05	0604274N	Next Generation Jammer (NGJ)	Volume 3 - 281
104	05	0604280N	JT Tact Radio Sys (JTRS)	Volume 3 - 297
105	05	0604307N	Surface Combatant Cmbt Sys Eng	Volume 3 - 315
106	05	0604311N	LPD-17 Class Systems Integration	Volume 3 - 337
107	05	0604329N	Small Diameter Bomb (SDB)	Volume 3 - 343
108	05	0604366N	Standard Missile Improvements	Volume 3 - 365
109	05	0604373N	Airborne Mine Countermeasures (AMCM)	Volume 3 - 385
110	05	0604376M	(U)Marine Air Grnd Task Force(MAGTF)EW for Aviatio	Volume 3 - 415
111	05	0604378N	Nav Integrated Fire Control-Counter Air Sys Eng	Volume 3 - 425
112	05	0604404N	(U)Unman Carrier Launch A/B Surv & Strk(UCLASS)Sys	Volume 3 - 431
113	05	0604501N	Advanced Above Water Sensors	Volume 3 - 447
114	05	0604503N	SSN-688 & Trident Modernization	Volume 3 - 473
115	05	0604504N	Air Control	Volume 3 - 499
116	05	0604512N	Shipboard Aviation Systems	Volume 3 - 515
117	05	0604518N	Combat Information Center Conv	Volume 3 - 527
118	05	0604522N	(U)Advanced Missile Defense Radar (AMDR) System	Volume 3 - 533
119	05	0604558N	New Design SSN	Volume 3 - 543

Budget Activity 05: System Development & Demonstration (SDD)
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
120	05	0604562N	Submarine Tactical Warfare System	Volume 3 - 577
121	05	0604567N	Ship Contract Design/ Live Fire T&E	Volume 3 - 585
122	05	0604574N	Navy Tactical Computer Resources	Volume 3 - 635
123	05	0604580N	(U)Virginia Payload Module (VPM	Volume 3 - 647
124	05	0604601N	Mine Development	Volume 3 - 655
125	05	0604610N	Lightweight Torpedo Development	Volume 3 - 661
126	05	0604654N	JT Service EOD	Volume 3 - 667
127	05	0604703N	Personnel, Trng, Sim, & Human Factors	Volume 3 - 671
128	05	0604727N	Joint Standoff Weapon Systems	Volume 3 - 677
129	05	0604755N	Ship Self Def (Detect & Cntrl)	Volume 3 - 685
130	05	0604756N	Ship Self Def (Engage: Hard Kill)	Volume 3 - 705
131	05	0604757N	Ship Self Def (Engage: Soft Kill/EW)	Volume 3 - 721
132	05	0604761N	Intelligence Engineering	Volume 3 - 747
133	05	0604771N	Medical Development	Volume 3 - 749
134	05	0604777N	Navigation/Id System	Volume 3 - 765
135	05	0604800M	(U)Joint Strike Fighter (JSF) - EMD	Volume 3 - 787
136	05	0604800N	JT Strike Fighter (JSF) - EMD	Volume 3 - 827
137	05	0605013M	Marine Corps IT Dev/Mod	Volume 3 - 873

Budget Activity 05: System Development & Demonstration (SDD)
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
138	05	0605013N	Information Technology Development	Volume 3 - 887
139	05	0605212N	CH-53K	Volume 3 - 941
140	05	0605220N	Ship to Shore Connector (SSC)	Volume 3 - 953
141	05	0605450N	Joint Air-to-ground Missile (JAGM)	Volume 3 - 969
142	05	0605500N	Multi-mssn Maritime Aircraft (MMA) (P-8A)	Volume 3 - 973
143	05	0204202N	DDG-1000	Volume 3 - 1005
144	05	0304231N	Tactical Command System - MIP	Volume 3 - 1021
145	05	0304785N	Tactical Cryptologic Systems	Volume 3 - 1027
146	05	0305124N	Special Applications Program	Volume 3 - 1039

Budget Activity 06: RDT&E Management Support
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
147	06	0604256N	Threat Simulator Development	Volume 4 - 1
148	06	0604258N	Target Systems Development	Volume 4 - 13
149	06	0604759N	Major T&E Investment	Volume 4 - 27

Budget Activity 06: RDT&E Management Support
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
150	06	0605126N	(U)Joint Theater Air and Missile Defense Org	Volume 4 - 33
151	06	0605152N	Studies & Analysis Supt - Navy	Volume 4 - 37
152	06	0605154N	Center For Naval Analyses	Volume 4 - 57
153	06	0605502N	Small Business Innovative Research	Volume 4 - 65
154	06	0605804N	Technical Information Services	Volume 4 - 109
155	06	0605853N	Management, Technical & Intl Supt	Volume 4 - 115
156	06	0605856N	Strategic Technical Support	Volume 4 - 167
157	06	0605861N	RDT&E Science & Tech Mgmt	Volume 4 - 173
158	06	0605863N	RDT&E Ship & Aircraft Support	Volume 4 - 183
159	06	0605864N	Test & Evaluation Support	Volume 4 - 195
160	06	0605865N	Operational Test & Eval Capability	Volume 4 - 221
161	06	0605866N	Navy Space & Electr Warfare Supt	Volume 4 - 229
162	06	0605867N	Space & Elec War Surv/Recon	Volume 4 - 237
163	06	0605873M	Marine Corps Program Wide Supt	Volume 4 - 243
164	06	0305885N	Tactical Cryptologic Activities	Volume 4 - 261
165	06	0909999N	Cancelled Account Adjustments	Volume 4 - 265

Budget Activity 07: Operational Systems Development
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
167	07	0604227N	Harpoon Modifications	Volume 5 - 1
168	07	0604402N	Unmanned Combat Air Veh(UCAV) Adv Cp/Proto Dev	Volume 5 - 5
169	07	0604766M	(U)MARINE CORPS DATA SYSTEMS	Volume 5 - 15
170	07	0605525N	(U)CARRIER ONBOARD DELIVERY (COD) FOLLOW ON	Volume 5 - 19
171	07	0605555N	(U)STRIKE WEAPONS DEVELOPMENT	Volume 5 - 23
172	07	0101221N	Strategic Sub & Wpns Sys Supt	Volume 5 - 33
173	07	0101224N	SSBN Security Tech Program	Volume 5 - 57
174	07	0101226N	Submarine Acoustic War Dev	Volume 5 - 59
175	07	0101402N	Navy Strategic Comms	Volume 5 - 65
176	07	0203761N	Rapid Technology Transition (RTT)	Volume 5 - 79
177	07	0204136N	F/A-18 Squadrons	Volume 5 - 89
178	07	0204152N	E-2 Squadrons	Volume 5 - 115
179	07	0204163N	Fleet Tactical Development	Volume 5 - 121
180	07	0204228N	Surface Support	Volume 5 - 131
181	07	0204229N	Tomahawk Mssn Planning Ctr	Volume 5 - 137
182	07	0204311N	Integrated Surveillance System	Volume 5 - 147

Budget Activity 07: Operational Systems Development
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
183	07	0204413N	Amphibious Tactical Supt Units	Volume 5 - 157
184	07	0204460M	(U)Ground/Air Task Oriented Radar (G/ATOR)	Volume 5 - 165
185	07	0204571N	Consolidated Trng Sys Dev	Volume 5 - 173
186	07	0204574N	Cryptologic Direct Support	Volume 5 - 201
187	07	0204575N	Elect Warfare Readiness Supt	Volume 5 - 205
188	07	0205601N	Harm Improvement	Volume 5 - 213
189	07	0205604N	Tactical Data Links	Volume 5 - 235
190	07	0205620N	Surface ASW Cmbt Sys Integr	Volume 5 - 275
191	07	0205632N	MK-48 ADCAP	Volume 5 - 283
192	07	0205633N	Aviation Improvements	Volume 5 - 289
193	07	0205658N	Navy Science Assistance Progr	Volume 5 - 321
194	07	0205675N	Operational Nuclear Power Sys	Volume 5 - 329
195	07	0206313M	Marine Corps Comms Systems	Volume 5 - 331
196	07	0206335M	Common Aviation Command and Control System (CAC2S)	Volume 5 - 437
197	07	0206623M	MC Ground Cmbt Spt Arms Sys	Volume 5 - 447
198	07	0206624M	Marine Corps Cmbt Services Supt	Volume 5 - 523
199	07	0206625M	USMC Intelligence/Electronics Warfare Sys	Volume 5 - 573
200	07	0207161N	Tactical Aim Missiles	Volume 5 - 601

Budget Activity 07: Operational Systems Development
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
201	07	0207163N	AMRAAM	Volume 5 - 619
202	07	0208058N	Joint High Speed Vessel (JHSV)	Volume 5 - 629
206	07	0303109N	Satellite Communications (Space)	Volume 5 - 633
207	07	0303138N	Consolidated Afloat Network Ent Services(CANES)	Volume 5 - 657
208	07	0303140N	Information Sys Security Program	Volume 5 - 673
209	07	0303150M	WWMCCS/GLOBAL COMMAND AND CONTROL SYSTEM	Volume 5 - 693
211	07	0305149N	Cobra Judy	Volume 5 - 697
212	07	0305160N	Navy Meteorological and Ocean Sensors-Space(METOC)	Volume 5 - 701
213	07	0305192N	JT Military Intel Programs	Volume 5 - 707
214	07	0305204N	Tactical Unmanned Aer Vehicles	Volume 5 - 709
215	07	0305207N	Manned Reconnaissance Sys	Volume 5 - 717
216	07	0305208M	(U)Distributed Common Ground/Surface Systems	Volume 5 - 721
217	07	0305208N	Distributed Common Ground Sys	Volume 5 - 729
218	07	0305220N	RQ-4 UAV	Volume 5 - 745
219	07	0305231N	MQ-8 UAV	Volume 5 - 757
220	07	0305232M	RQ-11 UAV	Volume 5 - 769
221	07	0305233N	RQ-7 UAV	Volume 5 - 773
222	07	0305234N	(U)SMALL (LEVEL 0) TACTICAL UAS (STUASL0)	Volume 5 - 777

Budget Activity 07: Operational Systems Development
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
223	07	0305239M	(U)RQ-21A	Volume 5 - 783
224	07	0305241N	(U) MULTI-INTELLIGENCE SENSOR DEVELOPMENT	Volume 5 - 789
225	07	0305242M	Unmanned Aerial Systems (UAS) Payloads	Volume 5 - 791
226	07	0308601N	Modeling & Simulation Support	Volume 5 - 795
227	07	0702207N	Depot Maintenance (NON-IF)	Volume 5 - 805
228	07	0708011N	Industrial Preparedness	Volume 5 - 813
229	07	0708730N	Maritime Tech (MARITECH)	Volume 5 - 825

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Master Program Element Table of Contents (Alphabetically by Program Element Title)

Program Element Title	Program Element Number	Line Item	Budget Activity	Page
(U) MULTI-INTELLIGENCE SENSOR DEVELOPMENT	0305241N	224	07	Volume 5 - 789
(U)AIRCRAFT SYSTEMS	0603251N	28	04	Volume 2 - 59
(U)ASE Self Protection Optimization	0604279N	77	04	Volume 2 - 635
(U)Advanced Missile Defense Radar (AMDR) System	0604522N	118	05	Volume 3 - 533
(U)Automated Test and Re-Test (ATRT)	0603597N	51	04	Volume 2 - 407
(U)CARRIER ONBOARD DELIVERY (COD) FOLLOW ON	0605525N	170	07	Volume 5 - 19
(U)CHALK CORAL	0603734N	61	04	Volume 2 - 527
(U)CHALK EAGLE	0603576N	46	04	Volume 2 - 295
(U)Distributed Common Ground/Surface Systems	0305208M	216	07	Volume 5 - 721
(U)Executive Helo Development	0604273N	102	05	Volume 3 - 275
(U)Future Naval Capabilities Advanced Tech Dev	0603673N	20	03	Volume 1 - 367
(U)Future Naval Capabilities Applied Research	0602750N	13	02	Volume 1 - 249
(U)Ground/Air Task Oriented Radar (G/ATOR)	0204460M	184	07	Volume 5 - 165
(U)Joint Light Tactical Vehicle(JLTV) EMD	0605812M	83	04	Volume 2 - 689
(U)Joint Strike Fighter (JSF) - EMD	0604800M	135	05	Volume 3 - 787
(U)Joint Theater Air and Missile Defense Org	0605126N	150	06	Volume 4 - 33
(U)LCS Mission Modules	0603596N	50	04	Volume 2 - 381

Program Element Title	Program Element Number	Line Item	Budget Activity	Page
(U)LINK EVERGREEN	0603764N	66	04	Volume 2 - 549
(U)LINK PLUMERIA	0603748N	64	04	Volume 2 - 545
(U)LITTORAL COMBAT SHIP	0603581N	47	04	Volume 2 - 299
(U)MARINE CORPS DATA SYSTEMS	0604766M	169	07	Volume 5 - 15
(U)Marine Air Grnd Task Force(MAGTF)EW for Aviatio	0604376M	110	05	Volume 3 - 415
(U)Offensive Anti-Surface Warfare Weapon Dev	0604786N	82	04	Volume 2 - 679
(U)Ohio Replacement	0603595N	49	04	Volume 2 - 365
(U)PILOT FISH	0603525N	35	04	Volume 2 - 161
(U)Precision Strike Weapons Development Program	0604659N	80	04	Volume 2 - 653
(U)RETRACT ELM	0603751N	65	04	Volume 2 - 547
(U)RETRACT JUNIPER	0603536N	37	04	Volume 2 - 165
(U)RETRACT LARCH	0603527N	36	04	Volume 2 - 163
(U)RETRACT MAPLE	0603746N	63	04	Volume 2 - 543
(U)RQ-21A	0305239M	223	07	Volume 5 - 783
(U)SMALL (LEVEL 0) TACTICAL UAS (STUASL0)	0305234N	222	07	Volume 5 - 777
(U)SPECIAL PROCESSES	0603787N	67	04	Volume 2 - 551
(U)STRIKE WEAPONS DEVELOPMENT	0605555N	171	07	Volume 5 - 23
(U)Unman Carrier Launch A/B Surv & Strk(UCLASS)Sys	0604404N	112	05	Volume 3 - 431
(U)Virginia Payload Module (VPM	0604580N	123	05	Volume 3 - 647

Program Element Title	Program Element Number	Line Item	Budget Activity	Page
AMRAAM	0207163N	201	07	Volume 5 - 619
ASW Systems Development	0603254N	29	04	Volume 2 - 69
ASW Systems Development - MIP	0303354N	84	04	Volume 2 - 699
AV-8B Aircraft - Engine Dev	0604214N	88	05	Volume 3 - 33
Acoustic Search Sensors	0604261N	97	05	Volume 3 - 203
Advanced Above Water Sensors	0604501N	113	05	Volume 3 - 447
Advanced Combat Systems Tech	0603382N	31	04	Volume 2 - 83
Advanced Hawkeye	0604234N	95	05	Volume 3 - 161
Advanced Nuclear Power Systems	0603570N	44	04	Volume 2 - 279
Advanced Submarine System Development	0603561N	40	04	Volume 2 - 201
Advanced Surface Machinery Sys	0603573N	45	04	Volume 2 - 287
Air Control	0604504N	115	05	Volume 3 - 499
Air Crew Systems Development	0604264N	99	05	Volume 3 - 223
Air/Ocean Equipment Engineering	0604218N	91	05	Volume 3 - 87
Air/Ocean Tactical Applications	0603207N	25	04	Volume 2 - 1
Airborne Mine Countermeasures (AMCM)	0604373N	109	05	Volume 3 - 385
Amphibious Tactical Supt Units	0204413N	183	07	Volume 5 - 157
Aviation Improvements	0205633N	192	07	Volume 5 - 289
Aviation Survivability	0603216N	26	04	Volume 2 - 37

Program Element Title	Program Element Number	Line Item	Budget Activity	Page
CH-53K	0605212N	139	05	Volume 3 - 941
Cancelled Account Adjustments	0909999N	165	06	Volume 4 - 265
Carrier Systems Development	0603512N	34	04	Volume 2 - 141
Center For Naval Analyses	0605154N	152	06	Volume 4 - 57
Cobra Judy	0305149N	211	07	Volume 5 - 697
Combat Information Center Conv	0604518N	117	05	Volume 3 - 527
Combat System Integration	0603582N	48	04	Volume 2 - 347
Common Aviation Command and Control System (CAC2S)	0206335M	196	07	Volume 5 - 437
Common Picture Applied Research	0602235N	7	02	Volume 1 - 143
Consolidated Afloat Network Ent Services(CANES)	0303138N	207	07	Volume 5 - 657
Consolidated Trng Sys Dev	0204571N	185	07	Volume 5 - 173
Conventional Munitions	0603609N	52	04	Volume 2 - 411
Cooperative Engagement	0603658N	56	04	Volume 2 - 449
Counterdrug RDT&E Projects	0603889N	72	04	Volume 2 - 591
Cryptologic Direct Support	0204574N	186	07	Volume 5 - 201
DDG-1000	0204202N	143	05	Volume 3 - 1005
Defense Research Sciences	0601153N	3	01	Volume 1 - 25
Deployable JT Cmd & Control	0603237N	27	04	Volume 2 - 53
Depot Maintenance (NON-IF)	0702207N	227	07	Volume 5 - 805

Program Element Title	Program Element Number	Line Item	Budget Activity	Page
Directed Energy and Electric Weapon System	0603925N	73	04	Volume 2 - 595
Distributed Common Ground Sys	0305208N	217	07	Volume 5 - 729
E-2 Squadrons	0204152N	178	07	Volume 5 - 115
EA-18 Squadrons	0604269N	100	05	Volume 3 - 233
Elect Warfare Readiness Supt	0204575N	187	07	Volume 5 - 205
Electromagnetic Systems Advanced Technology	0603271N	17	03	Volume 1 - 311
Electromagnetic Systems Applied Research	0602271N	9	02	Volume 1 - 187
Electronic Warfare (EW) Dev	0604270N	101	05	Volume 3 - 247
Electronic Warfare Development - MIP	0304270N	85	04	Volume 2 - 705
Environmental Protection	0603721N	58	04	Volume 2 - 475
F/A-18 Squadrons	0204136N	177	07	Volume 5 - 89
Facilities Improvement	0603725N	60	04	Volume 2 - 513
Fleet Tactical Development	0204163N	179	07	Volume 5 - 121
Force Protection Advanced Technology	0603123N	16	03	Volume 1 - 303
Force Protection Applied Res	0602123N	5	02	Volume 1 - 89
Gerald R Ford Class Nuc Aircraft Carrier CVN 78-80	0604112N	74	04	Volume 2 - 601
H-1 Upgrades	0604245N	96	05	Volume 3 - 191
Harm Improvement	0205601N	188	07	Volume 5 - 213
Harpoon Modifications	0604227N	167	07	Volume 5 - 1

Program Element Title	Program Element Number	Line Item	Budget Activity	Page
In-House Lab Independent Res	0601152N	2	01	Volume 1 - 7
Industrial Preparedness	0708011N	228	07	Volume 5 - 813
Information Sys Security Program	0303140N	208	07	Volume 5 - 673
Information Technology Development	0605013N	138	05	Volume 3 - 887
Integrated Surveillance System	0204311N	182	07	Volume 5 - 147
Intelligence Engineering	0604761N	132	05	Volume 3 - 747
JT Cntr Radio Controlled IED Elec War (JCREW)	0604653N	79	04	Volume 2 - 649
JT Military Intel Programs	0305192N	213	07	Volume 5 - 707
JT Non-Lethal Wpns Applied Res	0602651M	11	02	Volume 1 - 233
JT Non-Lethal Wpns Tech Dev	0603651M	19	03	Volume 1 - 361
JT Precision Approach & Ldg Sys	0603860N	71	04	Volume 2 - 571
JT Service EOD	0604654N	126	05	Volume 3 - 667
JT Service Explosive Ordn Dev	0603654N	55	04	Volume 2 - 433
JT Strike Fighter (JSF) - EMD	0604800N	136	05	Volume 3 - 827
JT Tact Radio Sys (JTRS)	0604280N	104	05	Volume 3 - 297
Joint Air-to-ground Missile (JAGM)	0605450N	141	05	Volume 3 - 969
Joint High Speed Vessel (JHSV)	0208058N	202	07	Volume 5 - 629
Joint Non-Lethal Weapons Testing	0603851M	70	04	Volume 2 - 563
Joint Standoff Weapon Systems	0604727N	128	05	Volume 3 - 677

Program Element Title	Program Element Number	Line Item	Budget Activity	Page
LPD-17 Class Systems Integration	0604311N	106	05	Volume 3 - 337
LX (R)	0604454N	78	04	Volume 2 - 643
Land Attack Tech	0603795N	69	04	Volume 2 - 559
Lightweight Torpedo Development	0604610N	125	05	Volume 3 - 661
MC Advanced Technology Demo	0603640M	18	03	Volume 1 - 323
MC Ground Cmbt Spt Arms Sys	0206623M	197	07	Volume 5 - 447
MK-48 ADCAP	0205632N	191	07	Volume 5 - 283
MQ-8 UAV	0305231N	219	07	Volume 5 - 757
Major T&E Investment	0604759N	149	06	Volume 4 - 27
Management, Technical & Intl Supt	0605853N	155	06	Volume 4 - 115
Manned Reconnaissance Sys	0305207N	215	07	Volume 5 - 717
Marine Corps Assault Vehicles	0603611M	53	04	Volume 2 - 417
Marine Corps Cmbt Services Supt	0206624M	198	07	Volume 5 - 523
Marine Corps Comms Systems	0206313M	195	07	Volume 5 - 331
Marine Corps Grnd Cmbt/Supt Sys	0603635M	54	04	Volume 2 - 423
Marine Corps IT Dev/Mod	0605013M	137	05	Volume 3 - 873
Marine Corps Lndg Force Tech	0602131M	6	02	Volume 1 - 111
Marine Corps Program Wide Supt	0605873M	163	06	Volume 4 - 243
Maritime Tech (MARITECH)	0708730N	229	07	Volume 5 - 825

Program Element Title	Program Element Number	Line Item	Budget Activity	Page
Medical Development	0604771N	133	05	Volume 3 - 749
Mine & Exp Warfare Applied Res	0602782N	14	02	Volume 1 - 289
Mine Development	0604601N	124	05	Volume 3 - 655
Mine and Expeditionary Warfare Advanced Technology	0603782N	24	03	Volume 1 - 431
Modeling & Simulation Support	0308601N	226	07	Volume 5 - 795
Multi-Mssn Helicopter Upgrade Dev	0604216N	90	05	Volume 3 - 77
Multi-mssn Maritime Aircraft (MMA) (P-8A)	0605500N	142	05	Volume 3 - 973
NATO Research and Deve	0603790N	68	04	Volume 2 - 555
Nav Integrated Fire Control-Counter Air Sys Eng	0604378N	111	05	Volume 3 - 425
Navigation/Id System	0604777N	134	05	Volume 3 - 765
Navy Energy Program	0603724N	59	04	Volume 2 - 493
Navy Logistic Productivity	0603739N	62	04	Volume 2 - 529
Navy Meteorological and Ocean Sensors-Space(METOC)	0305160N	212	07	Volume 5 - 701
Navy Science Assistance Progr	0205658N	193	07	Volume 5 - 321
Navy Space & Electr Warfare Supt	0605866N	161	06	Volume 4 - 229
Navy Strategic Comms	0101402N	175	07	Volume 5 - 65
Navy Tactical Computer Resources	0604574N	122	05	Volume 3 - 635
Navy Warfighting Exp & Demo	0603758N	23	03	Volume 1 - 425
New Design SSN	0604558N	119	05	Volume 3 - 543

Program Element Title	Program Element Number	Line Item	Budget Activity	Page
Next Generation Jammer (NGJ)	0604274N	103	05	Volume 3 - 281
Ocean Engineering Tech Dev	0603713N	57	04	Volume 2 - 465
Ocean Wrfghtg Env Applied Res	0602435N	10	02	Volume 1 - 217
Operational Nuclear Power Sys	0205675N	194	07	Volume 5 - 329
Operational Test & Eval Capability	0605865N	160	06	Volume 4 - 221
Other Helicopter Development	0604212N	87	05	Volume 3 - 9
P-3 Modernization Program	0604221N	92	05	Volume 3 - 97
Personnel, Trng, Sim, & Human Factors	0604703N	127	05	Volume 3 - 671
Power Proj Applied Research	0602114N	4	02	Volume 1 - 75
Power Projection Advanced Technology	0603114N	15	03	Volume 1 - 297
RDT&E Science & Tech Mgmt	0605861N	157	06	Volume 4 - 173
RDT&E Ship & Aircraft Support	0605863N	158	06	Volume 4 - 183
RQ-11 UAV	0305232M	220	07	Volume 5 - 769
RQ-4 UAV	0305220N	218	07	Volume 5 - 745
RQ-7 UAV	0305233N	221	07	Volume 5 - 773
Radiological Control	0603542N	38	04	Volume 2 - 167
Rapid Technology Transition (RTT)	0203761N	176	07	Volume 5 - 79
Remote Minehunting System (RMS)	0604122N	75	04	Volume 2 - 615
SEW Architecture/Eng Support	0604707N	81	04	Volume 2 - 657

Program Element Title	Program Element Number	Line Item	Budget Activity	Page
SSBN Security Tech Program	0101224N	173	07	Volume 5 - 57
SSN-688 & Trident Modernization	0604503N	114	05	Volume 3 - 473
Satellite Communications (Space)	0303109N	206	07	Volume 5 - 633
Ship Concept Advanced Design	0603563N	42	04	Volume 2 - 235
Ship Contract Design/ Live Fire T&E	0604567N	121	05	Volume 3 - 585
Ship Prel Design & Feasibility Studies	0603564N	43	04	Volume 2 - 251
Ship Self Def (Detect & Cntrl)	0604755N	129	05	Volume 3 - 685
Ship Self Def (Engage: Hard Kill)	0604756N	130	05	Volume 3 - 705
Ship Self Def (Engage: Soft Kill/EW)	0604757N	131	05	Volume 3 - 721
Ship to Shore Connector (SSC)	0605220N	140	05	Volume 3 - 953
Shipboard Aviation Systems	0604512N	116	05	Volume 3 - 515
Small Business Innovative Research	0605502N	153	06	Volume 4 - 65
Small Diameter Bomb (SDB)	0604329N	107	05	Volume 3 - 343
Space & Elec War Surv/Recon	0605867N	162	06	Volume 4 - 237
Special Applications Program	0305124N	146	05	Volume 3 - 1039
Standard Missile Improvements	0604366N	108	05	Volume 3 - 365
Standards Development	0604215N	89	05	Volume 3 - 41
Strategic Sub & Wpns Sys Supt	0101221N	172	07	Volume 5 - 33
Strategic Technical Support	0605856N	156	06	Volume 4 - 167

Program Element Title	Program Element Number	Line Item	Budget Activity	Page
Studies & Analysis Supt - Navy	0605152N	151	06	Volume 4 - 37
Submarine Acoustic War Dev	0101226N	174	07	Volume 5 - 59
Submarine Tactical Warfare Sys	0603562N	41	04	Volume 2 - 225
Submarine Tactical Warfare System	0604562N	120	05	Volume 3 - 577
Surface & Shallow Water MCM	0603502N	32	04	Volume 2 - 91
Surface ASW	0603553N	39	04	Volume 2 - 193
Surface ASW Cmbt Sys Integr	0205620N	190	07	Volume 5 - 275
Surface Combatant Cmbt Sys Eng	0604307N	105	05	Volume 3 - 315
Surface Ship Torpedo Defense	0603506N	33	04	Volume 2 - 135
Surface Support	0204228N	180	07	Volume 5 - 131
Tact Air Dir Infrared CM (TADIRCM)	0604272N	76	04	Volume 2 - 625
Tactical Aim Missiles	0207161N	200	07	Volume 5 - 601
Tactical Airborne Reconnaissance	0603261N	30	04	Volume 2 - 77
Tactical Command System	0604231N	94	05	Volume 3 - 119
Tactical Command System - MIP	0304231N	144	05	Volume 3 - 1021
Tactical Cryptologic Activities	0305885N	164	06	Volume 4 - 261
Tactical Cryptologic Systems	0304785N	145	05	Volume 3 - 1027
Tactical Data Links	0205604N	189	07	Volume 5 - 235
Tactical Unmanned Aer Vehicles	0305204N	214	07	Volume 5 - 709

Program Element Title	Program Element Number	Line Item	Budget Activity	Page
Target Systems Development	0604258N	148	06	Volume 4 - 13
Technical Information Services	0605804N	154	06	Volume 4 - 109
Test & Evaluation Support	0605864N	159	06	Volume 4 - 195
Threat Simulator Development	0604256N	147	06	Volume 4 - 1
Tomahawk Mssn Planning Ctr	0204229N	181	07	Volume 5 - 137
Training System Aircraft	0603208N	86	05	Volume 3 - 1
USMC Intelligence/Electronics Warfare Sys	0206625M	199	07	Volume 5 - 573
Undersea Warfare Advanced Tech	0603747N	22	03	Volume 1 - 419
Undersea Warfare Applied Res	0602747N	12	02	Volume 1 - 239
University Research Initiatives	0601103N	1	01	Volume 1 - 1
Unmanned Aerial Systems (UAS) Payloads	0305242M	225	07	Volume 5 - 791
Unmanned Combat Air Veh(UCAV) Adv Cp/Proto Dev	0604402N	168	07	Volume 5 - 5
V-22A	0604262N	98	05	Volume 3 - 213
WWMCCS/GLOBAL COMMAND AND CONTROL SYSTEM	0303150M	209	07	Volume 5 - 693
Warfare Support System	0604230N	93	05	Volume 3 - 105
Warfighter Protection Adv Tech	0603729N	21	03	Volume 1 - 411
Warfighter Sustainment Applied Res	0602236N	8	02	Volume 1 - 167

Program Element Table of Contents (by Budget Activity then Line Item Number)

Budget Activity 06: RDT&E Management Support
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
147	06	0604256N	Threat Simulator Development	Volume 4 - 1
148	06	0604258N	Target Systems Development	Volume 4 - 13
149	06	0604759N	Major T&E Investment	Volume 4 - 27
150	06	0605126N	(U)Joint Theater Air and Missile Defense Org	Volume 4 - 33
151	06	0605152N	Studies & Analysis Supt - Navy	Volume 4 - 37
152	06	0605154N	Center For Naval Analyses	Volume 4 - 57
153	06	0605502N	Small Business Innovative Research	Volume 4 - 65
154	06	0605804N	Technical Information Services	Volume 4 - 109
155	06	0605853N	Management, Technical & Intl Supt	Volume 4 - 115
156	06	0605856N	Strategic Technical Support	Volume 4 - 167
157	06	0605861N	RDT&E Science & Tech Mgmt	Volume 4 - 173
158	06	0605863N	RDT&E Ship & Aircraft Support	Volume 4 - 183
159	06	0605864N	Test & Evaluation Support	Volume 4 - 195
160	06	0605865N	Operational Test & Eval Capability	Volume 4 - 221
161	06	0605866N	Navy Space & Electr Warfare Supt	Volume 4 - 229

Budget Activity 06: RDT&E Management Support
Appropriation 1319: Research, Development, Test & Evaluation, Navy

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
162	06	0605867N	Space & Elec War Surv/Recon	Volume 4 - 237
163	06	0605873M	Marine Corps Program Wide Supt	Volume 4 - 243
164	06	0305885N	Tactical Cryptologic Activities	Volume 4 - 261
165	06	0909999N	Cancelled Account Adjustments	Volume 4 - 265

Program Element Table of Contents (Alphabetically by Program Element Title)

Program Element Title	Program Element Number	Line Item	Budget Activity	Page
(U)Joint Theater Air and Missile Defense Org	0605126N	150	06	Volume 4 - 33
Cancelled Account Adjustments	0909999N	165	06	Volume 4 - 265
Center For Naval Analyses	0605154N	152	06	Volume 4 - 57
Major T&E Investment	0604759N	149	06	Volume 4 - 27
Management, Technical & Intl Supt	0605853N	155	06	Volume 4 - 115
Marine Corps Program Wide Supt	0605873M	163	06	Volume 4 - 243
Navy Space & Electr Warfare Supt	0605866N	161	06	Volume 4 - 229
Operational Test & Eval Capability	0605865N	160	06	Volume 4 - 221
RDT&E Science & Tech Mgmt	0605861N	157	06	Volume 4 - 173
RDT&E Ship & Aircraft Support	0605863N	158	06	Volume 4 - 183
Small Business Innovative Research	0605502N	153	06	Volume 4 - 65
Space & Elec War Surv/Recon	0605867N	162	06	Volume 4 - 237
Strategic Technical Support	0605856N	156	06	Volume 4 - 167
Studies & Analysis Supt - Navy	0605152N	151	06	Volume 4 - 37
Tactical Cryptologic Activities	0305885N	164	06	Volume 4 - 261
Target Systems Development	0604258N	148	06	Volume 4 - 13
Technical Information Services	0605804N	154	06	Volume 4 - 109

Program Element Title	Program Element Number	Line Item	Budget Activity	Page
Test & Evaluation Support	0605864N	159	06	Volume 4 - 195
Threat Simulator Development	0604256N	147	06	Volume 4 - 1

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*					R-1 Program Element (Number/Name) PE 0604256N *I Threat Simulator Development*							
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
Total Program Element	0.000	27.843	43.261	45.272	-	45.272	41.861	22.359	21.400	22.064	Continuing	Continuing
0602: *Eletronics W/F Env Simulation (ECHO)*	0.000	15.624	30.151	30.536	-	30.536	27.466	7.607	7.078	7.223	Continuing	Continuing
0672: *Effect Nav E/W (ENEWS)*	0.000	12.219	13.110	14.736	-	14.736	14.395	14.752	14.322	14.841	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This is a continuing program that consolidates the design, fabrication and integration of Naval Electronic Warfare (EW) threat simulators for increased managerial emphasis and coordination. These simulator development efforts provide realistic Developmental and Operational Test and Evaluation environments to test EW systems and defensive tactics. These projects develop threat Anti-Air and Anti-Ship weapon system simulators in accordance with the Services' requirements.

The 0602 Project, Electronic Warfare Environment Simulation, directly supports the Test and Evaluation resource requirements for all Naval Air EW development programs to include multi-spectral situational awareness and countermeasures. Programs in development and future programs include: ALR-67(v) 3, Integrated Defensive Electronic Countermeasures Suite ALQ-214, the AAR-47 (v) 3, AVR-2, Advanced 6" Expendable, Advanced Strategic Tactical Expendable, ALQ-144A, Joint and Allied Threat Awareness System, Joint Strike Fighter, EA-18G, LR700, Low Band Transmitter, P-8A, and the Next Generation Jammer.

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under RESEARCH, DEVELOPMENT, TEST and EVALUATION MANAGEMENT SUPPORT because it supports efforts directed toward sustaining or modernizing installations or operations required for general research, development, test and evaluation.

B. Program Change Summary ($ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	30.790	43.261	43.084	-	43.084
Current President's Budget	27.843	43.261	45.272	-	45.272
Total Adjustments	-2.947	-	2.188	-	2.188
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.428	-			
• Program Adjustments	-	-	8.600	-	8.600
• Rate/Misc Adjustments	-	-	-6.412	-	-6.412

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy					Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*		R-1 Program Element (Number/Name) PE 0604256N *I Threat Simulator Development*			
• Congressional General Reductions Adjustments	-2.519	-	-	-	-

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0604256N / *Threat Simulator Development*	Project (Number/Name) 0602 / *Eletronics W/F Env Simulation (ECHO)*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0602: *Eletronics W/F Env Simulation (ECHO)*	-	15.624	30.151	30.536	-	30.536	27.466	7.607	7.078	7.223	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The objective of this project is development of necessary simulation facilities and approaches to allow determination of the effectiveness of Electronic Warfare (EW) in real world engagement situations and to support the introduction of modern, effective systems into Naval Aviation. The heavy use of test resources by all Services demonstrates the importance of these assets. The Navy has been very successful in executing all of its major programs, and to date has had no major technical problems.

The Electronic Warfare Environment Simulation project is unique because it is the only program within the Department of Defense which develops and provides Naval anti-air warfare threat assets for Test and Evaluation (T&E).

This project directly supports the T&E resource requirements for all Naval Air EW development programs, to include multi-spectral situational awareness and countermeasures. Programs in development and future programs include: ALR-67(v) 3, Integrated Defensive Electronic Countermeasures Suite ALQ-214, the AAR-47 (v) 3, AVR-2, Advanced 6" Expendable, Advanced Strategic Tactical Expendable, ALQ-144A, Joint and Allied Threat Awareness System, Joint Strike Fighter, EA-18G, LR700, Low Band Transmitter, P-8A, and the Next Generation Jammer.

This project provides for the development of an Integrated Air Defense T&E capability to be fielded at each of the three sites comprising the Navy's Tri-Center complex: Naval Air Warfare Center Weapons Division, China Lake and Point Mugu in CA, and Naval Air Warfare Center Aircraft Division, Patuxent River, MD.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: RADIO FREQUENCY (RF) THREAT CAPABILITIES	14.645	-	-
Articles:	-	-	-
Description: Provide the test community with the modern threat systems necessary for T&E of airborne RF alert, Situation Awareness, targeting systems and airborne RF response systems. The projects that have been grouped in the Radio Frequency Threat Capabilities accomplishment area through FY 2013 will realign to either the Acquisition and Measurement Capabilities accomplishment or the Engagement Capabilities accomplishment starting in FY 2014. This change was made to allow a more detailed tracking for those projects.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604256N / *Threat Simulator Development*	**Project (Number/Name)** 0602 / *Eletronics W/F Env Simulation (ECHO)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
FY 2013 Accomplishments: - Continued the upgrade to the J-32B Advanced Threat System at Electronic Combat Range (ECR). Project realigned to the Engagement Capabilities accomplishment in FY 2014. - Continued the development of an advanced Early Warning and Acquisition radar hybrid laboratory simulator. Project realigned to the Acquisition and Measurement Capabilities accomplishment in FY 2014. - Continued the development of the Long Range Threat System (LRTS) at ECR. Project realigned to the Engagement Capabilities accomplishment in FY 2014. - Continued the update to existing laboratory simulators of foreign radars. Project realigned to the Acquisition and Measurement Capabilities accomplishment in FY 2014. - Continued the development of a Digital Radio Frequency Memory Jammer simulator. Project realigned to the Engagement Capabilities accomplishment in FY 2014. - Completed the development of the LRTS in laboratories. - Initiated the upgrade and integration of missile simulation models. Project realigned to the Engagement Capabilities accomplishment in FY 2014. - Initiated the upgrade of open-loop threat simulators at ECR. Project realigned to the Acquisition and Measurement Capabilities accomplishment in FY 2014. - Initiated the development of an open air radio frequency beam measurement capability. Project realigned to the Acquisition and Measurement Capabilities accomplishment in FY 2014. - Initiated the development of a closed-loop threat surface to air missile system simulator. Project realigned to the Engagement Capabilities accomplishment in FY 2014. - Initiated the conversion of a threat system. Project realigned to the Engagement Capabilities accomplishment in FY 2014. ***FY 2014 Plans:*** N/A ***FY 2015 Plans:*** N/A			
Title: ACQUISITION AND MEASUREMENT CAPABILITIES	-	10.006	9.030
Articles:	-	-	-
Description: Provide the test community with the modern threat acquisition systems and effectiveness measurement systems necessary for Test and Evaluation of airborne alert, Situation Awareness, targeting systems and airborne response systems.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604256N / *Threat Simulator Development*	**Project (Number/Name)** 0602 / *Eletronics W/F Env Simulation (ECHO)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
The Acquisition and Measurement Capabilities accomplishment was created to allow a more detailed tracking for some of the projects that were previously grouped under the Radio Frequency (RF) Threat Capabilities accomplishment. All projects listed as continue or complete under this accomplishment were realigned from the RF Threat Capabilities accomplishment. ***FY 2013 Accomplishments:*** N/A ***FY 2014 Plans:*** Projects listed as Continue or Complete under this accomplishment were realigned from the RF Threat Capabilities accomplishment. - Continue the update to existing laboratory simulators of foreign radars that was realigned from the RF Threat Capabilities accomplishment. - Continue the upgrade of open-loop threat simulators at Electronic Combat Range (ECR) that was realigned from the RF Threat Capabilities accomplishment. - Continue the development of an open air radio frequency beam measurement capability that was realigned from the RF Threat Capabilities accomplishment. - Initiate the upgrade of open air radio frequency signal density enhancement systems. - Complete the development of an advanced Early Warning and Acquisition radar hybrid laboratory simulator that was realigned from the RF Threat Capabilities accomplishment. ***FY 2015 Plans:*** - Complete the update to existing laboratory simulators of foreign radars. - Continue the upgrade of open-loop threat simulators at ECR. - Continue the development of an open air radio frequency beam measurement capability. - Continue the upgrade of open air radio frequency signal density enhancement systems.			
Title: REQUIREMENTS AND VALIDATION ***Articles:*** ***Description:*** Validate and track intel updates of the threat systems necessary for the operation and continuous improvement of Navy laboratories and ranges which provide engineering support, testing and analysis to the developers, integrators, testers and users of systems and technologies that counter or penetrate air defenses. ***FY 2013 Accomplishments:***	0.979 -	0.981 -	0.981 -

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604256N / *Threat Simulator Development*	**Project (Number/Name)** 0602 / *Eletronics W/F Env Simulation (ECHO)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Continued to provide program management, systems engineering, and requirements identification for the development of simulators and foreign material acquisition. - Continued to validate simulators and stimulators at the Navy tri-lab centers. ***FY 2014 Plans:*** - Continue to provide program management, systems engineering, and requirements identification for the development of simulators and foreign material acquisition. - Continue to validate simulators and stimulators at the Navy tri-lab centers. ***FY 2015 Plans:*** - Continue to provide program management, systems engineering, and requirements identification for the development of simulators and foreign material acquisition. - Continue to validate simulators and stimulators at the Navy tri-lab centers.			
Title: ENGAGEMENT CAPABILITIES	-	19.164	20.525
Articles:	-	-	-
Description: Provide the test community with the modern threat engagement systems necessary for Test and Evaluation of airborne alert, Situation Awareness, targeting systems and airborne response systems. The Engagement Capabilities accomplishment was created to allow a more detailed tracking for some of the projects that were previously grouped under the Radio Frequency (RF) Threat Capabilities accomplishment. All projects listed as continue or complete under this accomplishment were realigned from the RF Threat Capabilities accomplishment. Funding increases from FY 2014 to FY 2015 due to the need for additional test capability for the Next Generation Jammer and the Joint Strike Fighter programs. ***FY 2013 Accomplishments:*** N/A ***FY 2014 Plans:*** Projects listed as Continue or Complete under this accomplishment were realigned from the Radio Frequency (RF) Threat Capabilities accomplishment. - Continue the upgrade and integration of missile simulation models that was realigned from the RF Threat Capabilities accomplishment.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604256N / *Threat Simulator Development*	**Project (Number/Name)** 0602 / *Eletronics W/F Env Simulation (ECHO)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Continue the development of a closed-loop threat surface to air missile system simulator that was realigned from the RF Threat Capabilities accomplishment. - Continue the conversion of a threat system that was realigned from the RF Threat Capabilities accomplishment. - Complete the development of the Long Range Threat System (LRTS) simulator at Electronic Combat Range (ECR) that was realigned from the RF Threat Capabilities accomplishment. - Complete the development of a Digital Radio Frequency Memory Jammer simulator that was realigned from the RF Threat Capabilities accomplishment. - Complete the upgrade to the J-32B Advanced Threat System at ECR that was realigned from the RF Threat Capabilities accomplishment. - Initiate the minor upgrades to open air and laboratory threat systems. ***FY 2015 Plans:*** - Continue the upgrade and integration of missile simulation models. - Continue the development of a closed-loop threat surface to air missile system simulator. - Continue the conversion of a threat system. - Continue the minor upgrades to open air and laboratory threat systems. - Complete the development of the LRTS simulator at ECR.			
Accomplishments/Planned Programs Subtotals	15.624	30.151	30.536

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not Applicable.

E. Performance Metrics

Successfully achieve Initial Operational Capability of Navy Threat Simulation projects within 60 days of approved schedule and have test capabilities scheduled in support of Navy test programs within 180 days.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0604256N / *Threat Simulator Development*	Project (Number/Name) 0672 / *Effect Nav E/W (ENEWS)*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0672: *Effect Nav E/W (ENEWS)*	-	12.219	13.110	14.736	-	14.736	14.395	14.752	14.322	14.841	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The objective of the Effectiveness of Navy Electronic Warfare (EW) Systems (ENEWS) Project is the development and application of necessary simulation assets to determine the effectiveness of EW for Navy ships in simulated real-world engagement situations. The project primarily supports the introduction of modern, effective shipboard and off-board EW systems, and tactics for the Surface Navy. The heavy use of ENEWS resources by Naval Sea Systems Command, Operational Test and Evaluation (OT&E) Force, Special Operations, and other EW Research, Development, Test and Evaluation (T&E) agencies speaks to the overall importance of this project. The project provides support for EW system design, Engineering Test (ET), Development Test (DT), Operational Test (OT), and the development of utilization tactics. In the past ENEWS quick reaction capabilities have had great impact on crisis situations such as the Libyan crises, Iran threat, Persian Gulf crisis, and Operation Desert Shield/Storm. Simulation Display (SIMDIS) is an ENEWS modeling tool that was developed to support T&E. SIMDIS has been adopted by most Department of Defense (DoD) T&E and training ranges to provide visualization of T&E and training scenarios. One of the primary threats to surface ships is Anti-Ship Capable Missile systems. The ENEWS Project is unique in that it is the only project within DoD dedicated to developing and providing realistic Anti-Ship Capable Missile assets to test and evaluate the effectiveness of shipboard EW systems and tactics against these type threats. The ENEWS Project is a critical part of the Office of the Secretary of Defense Test Resource Master Plan. This plan employs many of the ENEWS assets for planning, analysis, testing, and verification of shipboard and off-board EW systems techniques and tactics. As part of its normal activities, ENEWS provides Development Test and Evaluation (DT&E), OT&E, and Follow-on Operational Test and Evaluation (FOT&E) support to the surface Navy for all ship classes. DT, OT and FOT&E support includes AN/SLQ-32 Surface Electronic Warfare Improvement Program (SEWIP), Nulka, Rapid Anti-ship Integrated Defense System, all MK245 Giant tests, advanced InfraRed (IR) decoys, decoy placement, ship IR signature and radar cross section measurement of DDG-51, LPD-17, DD-21 and PC class ships, High Power Microwave program, and other ship self-defense initiatives, including T&E of Future Naval Capability process. In addition, ENEWS assets are regularly employed to test the effectiveness of North Atlantic Treaty Organization (NATO) ships' EW systems in joint allied exercises. ENEWS assets also support Joint EW exercises that are conducted with Rim of the Pacific (RIMPAC) nations.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: CLASSIFIED PROGRAM	7.650	8.626	7.500
Articles:	-	-	-
Description: Details about this program are classified.			
Details about this program and any changes are classified.			
FY 2013 Accomplishments:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604256N / *Threat Simulator Development*	**Project (Number/Name)** 0672 / *Effect Nav E/W (ENEWS)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Details are of a higher classification. ***FY 2014 Plans:*** - Details are of a higher classification. ***FY 2015 Plans:*** - Details are of a higher classification.			
Title: HARDWARE SIMULATION SYSTEMS ***Articles:*** ***Description:*** Maintain and perform Hardware and Software Upgrades to the inventory of ENEWS flyable and shore based Anti-Ship Capable Missile (ASCM) Electro-Optic/Infrared (EO/IR), Visible and Radio Frequency (RF) Simulators. Perform characterization of IR and RF simulators as part of periodic evaluation of simulation performance and collect performance data for comparison with previously recorded data. Development and maintenance of all simulator control panels. The increase between FY 2014 and FY 2015 is due to the Effectiveness of Naval EW Systems Technical Change. This funding increase supports critical simulator capability upgrades necessary to test, evaluate and demonstrate the effectiveness of Surface Electronic Warfare. ***FY 2013 Accomplishments:*** - Continued annual maintenance of ENEWS simulators to support flight/shore based tests. - Completed software intelligence upgrades to the FOXTROT 3 TOWSIM. - Completed characterization of NOVEMBER Va/Vb simulator. - Initiated software intelligence upgrades to the MEIR 3 and MIKE 3. - Initiated and completed characterization of the OMEGA simulator. ***FY 2014 Plans:*** - Continue annual maintenance of ENEWS simulators to support flight/shore based tests. - Complete software intelligence upgrades to the MEIR 3 and MIKE 3 simulators. - Initiate hardware upgrades to the SUMMIT Simulator. - Initiate software upgrades to the VICTOR Standard Instrumentation (SIP). ***FY 2015 Plans:*** - Continue all efforts of FY 2014 less those noted completed below. - Initiate hardware upgrades to the FOXTROT 3 TOWSIM.	1.887 -	1.800 -	1.786 -
Title: SIMULATION VALIDATION AND REQUIREMENTS	0.904	0.845	0.649

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604256N / *Threat Simulator Development*	**Project (Number/Name)** 0672 / *Effect Nav E/W (ENEWS)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Articles:	-	-	-
Description: Provides for the validation of hardware simulators and digital models. Develops reports that contain detailed descriptions and parametric data of the threat simulators or digital models and compares the simulator's parametric data to the actual threats parametric data. Provide technical management functions in support of the ENEWS project; engineering and technical support requirements for the overall efforts of ASCM simulator and digital model development to meet DT/OT testing requirements, development of detailed test resource requirements and provides an interface between OPNAV N2/N6, Office of Naval Research, Naval Post Graduate School (NPS) and other ENEWS oversight activities. ***FY 2013 Accomplishments:*** - Continued management of the SVWG. - Completed QUESTION and UNIFORM hardware validation reports. - Completed OMEGA and GAMMA hardware validation reports. - Deferred FOXTROT 3 TOWSIM hardware validation report. - Initiated and completed update of the FY 2013 Program Management Plan. - Initiated and completed FY 2013 quarterly reports, earned value management analysis, progress tracking and analysis. - Initiated SIGMA hardware validation report. ***FY 2014 Plans:*** - Continue participation in the SVWG. - Continue SIGMA simulator hardware validation report. - Initiate and complete update of the 2014 Program Management Plan. - Initiate and complete FY2014 monthly reports, performance based management and analysis, financial execution reporting and assessment. - Initiate OMEGA 2 and ZETA simulator hardware validation report. ***FY 2015 Plans:*** - Continue all efforts of FY 2014 less those noted completed below. - Complete SIGMA, OMEGA 2 and ZETA simulator hardware validation reports. - Initiate and complete update of the 2015 Program Management Plan. - Initiate and complete FY2015 monthly reports, performance based management and analysis, financial execution reporting and assessment. - Initiate LAMBDA simulator hardware validation report.			
Title: SUPPORT AND COMPUTERS SIMULATION SYSTEMS	1.778	1.839	4.801
Articles:	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604256N / *Threat Simulator Development*	**Project (Number/Name)** 0672 / *Effect Nav E/W (ENEWS)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015

Description: Perform maintenance and intelligence upgrades to EO/IR, Digital, and RF Laboratory Simulation testing facilities and flight support equipment based on existing and emerging complex threat systems. Development of T&E scenarios and environmental modeling to support electronic support (ES) and electronic attack (EA) testing; modify ASCM Digital Models based on the latest intelligence data obtained from threat databases.

The increase between FY 2014 and FY 2015 is due to the Effectiveness of Naval EW Systems Technical Change. This funding increase to support critical simulator capability upgrades and digital model development necessary to test, evaluate and demonstrate effectiveness of Surface Electronic Warfare.

FY 2013 Accomplishments:
- Continued maintenance and upgrades to shore-based test facilities and mobile test vans as required to conduct testing in support of SEWIP, Nulka and multi-function EW programs.
- Continued to transition environmental, threat and platform simulations from Subversion to Mercurial Distributed Version Control System.
- Continued upgrades to configuration control software library as new releases became available.
- Continued to develop new digital models of Anti-ship Cruise Missile (ASCM) threats as they became available.
- Continued upgrades and maintenance of flight support systems as necessary to support the IR/RF ENEWS simulators.
- Continued improvements and intelligence upgrades to digital models including INDIA I, II, III, LIMA I, II, NOVEMBER, OMEGA and GAMMA digital models.
- Continued upgrades and user friendly enhancements to the Simulation Display (SIMDIS) toolset
- Completed user friendly enhancements for the TANGO and TANGO II digital models.
- Initiated user friendly enhancements for the NOVEMBER IV digital model.

FY 2014 Plans:
- Continue all efforts of 2013, less those noted as completed below.
- Complete simulator user friendly enhancements for the NOVEMBER IV digital model.
- Complete improvements and intelligence upgrades to the mmW digital models.
- Initiate development of LIMA III and LIMA IV digital models

FY 2015 Plans:
- Continue all efforts of 2014, less those noted as completed below.
- Continue development of LIMA III and LIMA IV digital models.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604256N / *Threat Simulator Development*	**Project (Number/Name)** 0672 / *Effect Nav E/W (ENEWS)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Initiate digital model upgrades to support Surface Electronic Warfare Improvement Program (SEWIP) Block 3 test and evaluation.			
Accomplishments/Planned Programs Subtotals	12.219	13.110	14.736

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not applicable.

E. Performance Metrics

Performance metrics are discussed within each project (R2a).

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy* / BA 6: *RDT&E Management Support*					R-1 Program Element (Number/Name) PE 0604258N / *Target Systems Development*							
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
Total Program Element	0.000	53.171	71.872	79.718	-	79.718	30.789	12.383	12.740	13.006	Continuing	Continuing
0609: *Aerial Target System Dev*	0.000	46.317	53.020	69.296	-	69.296	24.660	9.548	10.124	10.352	Continuing	Continuing
0610: *Wpn Sys T&E Trng Dev/ Proc*	0.000	5.583	14.464	-	-	-	0.818	-	0.048	-	-	20.913
0612: *Surface Targets Development*	0.000	1.271	1.366	1.262	-	1.262	1.235	1.302	1.278	1.307	Continuing	Continuing
2159: *ASW TARGET*	0.000	-	3.022	9.160	-	9.160	4.076	1.533	1.290	1.347	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This program element funds the development and procurement of aerial targets, sea surface targets, control systems, and associated Target Augmentation and Auxiliary Systems (TA/TS) needed to represent real world threat systems. These capabilities are key enablers to the successful execution of the developmental and operational test and evaluation of naval combat weapons systems and to the satisfaction of advanced fleet training requirements.

This program is funded under Research, Development, Test, and Evaluation Management Support because it supports efforts directed toward sustaining or modernizing installations or operations required for general research, development, test and evaluation.

B. Program Change Summary ($ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	59.221	71.872	29.126	-	29.126
Current President's Budget	53.171	71.872	79.718	-	79.718
Total Adjustments	-6.050	-	50.592	-	50.592
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.120	-			
• Program Adjustments	-	-	60.400	-	60.400
• Rate/Misc Adjustments	-	-	-9.808	-	-9.808
• Congressional General Reductions Adjustments	-4.930	-	-	-	-

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy	Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0604258N / *Target Systems Development*

Change Summary Explanation

In FY13, SBIR/STTR transfer of $1.12 million and Congressional reductions of $4.930 million were applied to Project Unit (PU) 0610. $10.1 million was also realigned from PU 0610, Air Superiority Target (AST)/QF-16 to PU 0609, Multi-Stage Supersonic Target (MSST) program. The AST/QF-16 program requirements changed as no AST/QF-16 assets were procured and funding was required for the Engineering & Manufacturing Development (EMD) contract only. $0.47 million was also realigned from PU 0610, Full Scale Aerial Target (FSAT) program/QF4 to PU 0609, MSST program. The FSAT/QF-4 program requirements changed due to changes in operational and maintenance requirements.

The Multi Stage Supersonic Target (MSST) (designated the GQM-173A) program increased in design/development costs, requiring additional funding in FY 2013 to align to the Contractor's Estimate to Complete and prevent delays in the initial production schedule. The GQM-173A encountered test failures and as a result Milestone (MS) C is now planned for FY 2016. In FY 2013, $10.1 million was realigned from PU 0610/AST program to PU 0609/MSST program and in FY 2015 $48.48 million was realigned from WPN (BLI 2280) to continue EMD in order to complete required testing.

The Subsonic Aerial Target (SSAT) (designated the BQM-177A) program requires additional funding in FY2015 due to schedule delays and technical issues in the areas of guidance and control, software development, and 6 Degrees of Freedom modeling. $8.52 million was reprogrammed from FY15 WPN (BLI 2280) to mitigate this shortfall.

The Supersonic Sea Skimming Target (SSST) (designated the GQM-163A) program was funded $2.65 million in FY15 for design/development to improve the GQM-163A Quad Launch capability. This budget item includes an increased capability to develop a system capable of firing 4 targets vice the 2 currently in the mission portfolio. The $2.65 million includes design and development costs, launch control equipment, launcher(s) and incorporates the Joint Advanced Missile Instrumentation which allows for the launch of 4 targets.

In FY15, the AST/QF-16 and FSAT/QF-4 programs were eliminated as a result of Department of Navy adjustments.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0604258N / *Target Systems Development*	Project (Number/Name) 0609 / *Aerial Target System Dev*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0609: *Aerial Target System Dev*	-	46.317	53.020	69.296	-	69.296	24.660	9.548	10.124	10.352	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Aerial target systems, Target Control (TC), and associated TA/AS are developed to support test & evaluation and advanced fleet training for Joint Strike and Littoral Warfare Systems required to defend fleet surface and air units in a hostile environment. In addition to hardware, software and operational concept development, studies will be performed by an University Affiliated Research Center (UARC) to specify and verify needed target performance for future target development. For the design and validation of targets under development, the UARC will provide engineering studies in areas such as structures, controls, guidance, and propulsion. For those hardware and software items presently under development by commercial vendors, the UARC will provide oversight and validation of vendor design and development approach. As to specific harware development, this project includes:

- Subsonic Targets: BQM-177A development primarily represents subsonic anti-ship cruise missile threats in direct support of the Test & Evaluation of major combat weapons systems programs and of fleet training.
- Supersonic Targets: GQM-163A, GQM-173A, and supersonic high-diver capability development. The family of supersonic target capabilities represents supersonic anti-ship cruise missile threats in direct support of Developmental Test and Evaluation (DT&E), Operational Test and Evaluation (OT&E) and Live Fire Test and Evaluation of major combat weapons systems programs in development.
- TC and TA/AS development: TC provides command and control of targets to enable the execution of threat-representative mission profiles. TA/AS enables each target to be uniquely configured for specific mission profiles. TA/AS-configured targets are used for radar acquisition test, electronic countermeasures (jamming) evaluation, infrared measurement and testing, radar cross section evaluation, decoy-effectiveness testing, maneuver analysis, electronic warfare evaluation, warhead-effectiveness testing and evaluation of fleet tactics. TA/AS scoring capabilities include both surface and airborne scalar and vector scoring systems.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Supersonic Targets	26.328	33.058	52.248
Articles:	-	-	-
Description: The GQM-173A target emulates a two-stage anti-ship cruise missile. The GQM-173A will have a subsonic bus stage vehicle which will tumble and fall into the sea, and a supersonic sprint stage vehicle which continues flight to impact. The fielded system will provide threat representation in support of DT&E and OT&E and will identify deficiencies in shipboard air defense systems. Funding will also continue for GQM-163A upgrades/evolutionary development to keep pace with evolving threat characteristics. Efforts include continuing to develop performance envelope characteristics to include flight termination performance and quad launch capability.			
FY 2013 Accomplishments:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604258N / *Target Systems Development*	**Project (Number/Name)** 0609 / *Aerial Target System Dev*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Conducted a technical re-baseline of the target to correct Phase I deficiencies found during the first EDM flight. Conducted trade designs, technical review boards, wind tunnel, captive carry and ground testing. Conducted technical interchange meetings, Program Management Reviews (PMR) and Schedule Risk Assessment (SRA). ***FY 2014 Plans:*** Continue wind tunnel testing, captive carry and ground testing. Conduct rocket motor qualification, hazard classification and insensitive munitions testing. Conduct Integrated Baseline Review, PMRs and SRAs. ***FY 2015 Plans:*** Continue ground testing, perform separation flight tests, and begin validation of the models and simulations. Conduct PMRs, SRA and technical design meetings. Commence and complete quad launch effort which will provide the required improvements in the current infrastructure of the launch capability to accommodate the increased number of targets, two to four.			
Title: Subsonic Targets ***Articles:*** ***Description:*** The BQM-177A represents subsonic anti-ship cruise missile threat in direct support of the T&E of major combat weapons systems programs and fleet training. It is the follow-on to the BQM-74 and BQM-34 targets, featuring longer range, lower cruise altitudes and greater maneuverability. ***FY 2013 Accomplishments:*** Conducted developmental ground testing including Radar Cross Section, Moment of Inertia and Mass Properties. Conducted software functional qualification tests and commenced Rocket Assisted Take Off (RATO) and structures qualification. Conducted Software Preliminary Design Review (PDR) and deep dive technical assessments in the areas of structures, guidance and control, and modeling and simulation. Conducted system level PDR and Weapon Systems Explosive Safety Review Board (WSESRB). ***FY 2014 Plans:*** Conduct developmental ground testing and software functional qualification tests. Continue RATO and structures qualification. Conduct developmental flight tests, Critical Design Review (CDR) and WSESRB. Conduct PMRs and SRAs. ***FY 2015 Plans:*** Conduct CDR and final WSESRB. Conduct PMRs and SRAs. Complete RATO and structures qualification, developmental flight tests and system verification and product readiness reviews.	15.939 -	13.644 -	10.984 -
Title: Target Control (TC) and Target Augmentation and Auxiliary Systems (TA/AS) ***Articles:*** ***Description:*** Continue to support TC and TA/AS capable of supporting T&E and fleet training activities. TC involves the improved command and control systems capable of controlling multiple targets simultaneously while delivering adequate fidelity of T&E	4.050 -	6.318 -	6.064 -

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604258N / *Target Systems Development*	**Project (Number/Name)** 0609 / *Aerial Target System Dev*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
telemetry data. Augmentation and Auxiliary systems must be capable of augmenting targets in support of radar acquisition test, electronic countermeasures (jamming) evaluation, infrared measurement/test, radar cross section evaluation, decoy effectiveness, maneuver analysis, electronic warfare, warhead effectiveness and evaluation of fleet tactics, readiness and training. ***FY 2013 Accomplishments:*** Continued development, prototype and integration of threat electronic attack & active emitter simulators. Gathered and exploited threat intelligence. ***FY 2014 Plans:*** Continue development, prototype and integration of threat electronic attack & active emitter simulators. Gather and exploit threat intelligence. ***FY 2015 Plans:*** Continue development, prototype and integration of threat electronic attack & active emitter simulators. Gather and exploit threat intelligence.			
Accomplishments/Planned Programs Subtotals	46.317	53.020	69.296

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• WPN 22800: *Aerial Targets*	42.621	39.460	48.046	-	48.046	62.109	84.390	97.507	94.052	Continuing	Continuing
• WPN 612020: *Initial Spares*	0.770	1.858	-	-	-	1.672	1.281	0.940	0.960	Continuing	Continuing

Remarks

D. Acquisition Strategy

Not applicable.

E. Performance Metrics

EFFORT	PERFORMANCE REQUIREMENT	OBJECTIVE	THRESHOLD	TEST RESULT
BQM-177 EMD program	Maximum Speed at Low Altitude [Mach (M) at feet (ft) above wave crest at WMO Sea State conditions]	0.95 M @ 6.6 ft @ Sea State 5	0.90 M @10.0 ft @ Sea State 3	TBD
GQM-173A	Speed of separated sprint	Mach 2.2 to Mach 3.5	Threshold=Objective	TBD

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604258N / *Target Systems Development*	**Project (Number/Name)** 0609 / *Aerial Target System Dev*

EMD	vehicle				
TC-TA/AS Emitter Simulators Target Threat Simulation Program	High Frequency Band Microwave Threat Simulation Systems- Threshold=Objective Second Source	TBD	100 Watts output power	HIgh Fidelity Threat Electronic Attack & Active	

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0604258N / *Target Systems Development*	Project (Number/Name) 0610 / *Wpn Sys T&E Trng Dev/Proc*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0610: *Wpn Sys T&E Trng Dev/ Proc*	-	5.583	14.464	-	-	-	0.818	-	0.048	-	-	20.913
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project provides for the development and procurement of aerial targets and associated systems used exclusively for test and evaluation of naval weapons systems which closely represent current and projected threats to fleet units in the joint strike and the littoral warfare environments. These representations must include characteristics related to size, performance envelope, and electromagnetic and infrared signatures. As threats change, changes must be made to keep the targets threat representative in response to changes in the test requirements of the developers of naval weapons systems.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Air Superiority Target (AST)	4.233	12.391	-
Articles:	-	-	-
Description: The AST is being developed as the follow-on to the current Full Scale Aerial Target (FSAT) and is an Air Force managed program. The QF-16 is a converted F-16 aircraft and provides a supersonic, high altitude, remote-controlled aerial target. This target will have full command and control capability through normal flight maneuvers. The AST target presentations will support aircraft and weapons systems testing and development, including that of the Joint Strike Fighter (JSF), AIM-9X Sidewinder missile, Advanced Medium Range Air-to-Air Missile (AMRAAM), and Standard Missile 6 (SM-6).			
FY 2013 Accomplishments: Conducted EMD and awarded Milestone C.			
FY 2014 Plans: Commence procurement of AST assets with RDT&E,N funding. Conduct depreservation and conversion of two more QF-16 aircraft retrieved from Davis Monthan AFB storage.			
FY 2015 Plans: N/A			
Title: QF-4 FSAT	1.350	2.073	-
Articles:	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604258N / *Target Systems Development*	**Project (Number/Name)** 0610 / *Wpn Sys T&E Trng Dev/Proc*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Description: The FSAT is a supersonic, high altitude, remote-controlled aerial target. This target has full command and control capability through normal flight maneuvers. The program will include engineering and logistics support for the FSAT, including aviation depot level repairables and procurement of kit material. The QF-4 target presentations support aircraft and weapons systems testing and development, including that of the JSF, AIM-9X Sidewinder missile, AMRAAM and Standard Missile 6. ***FY 2013 Accomplishments:*** Maintained and operated the fielded inventory earmarked for the Navy. FSAT annual cost varies with the number of target sorties/ presentations required and the number of targets remaining on the ramp requiring service. ***FY 2014 Plans:*** Continue to maintain and operate the fielded inventory earmarked for the Navy. ***FY 2015 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	5.583	14.464	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

EFFORT	PERFORMANCE REQUIREMENT	OBJECTIVE	THRESHOLD	TEST RESULT
QF-4 Full Scale Target	Flight Termination Sys.- Reliable & effective auto & manual failsafe fast destruct, orbit destruct, & destruct receiver capability	Achieve requirement	Threshold=objective	Satisfactory
AST - Air Superiority Target	Capable of carrying, operating and monitoring required payloads	Achieve requirement	Threshold=objective	TBD

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604258N / *Target Systems Development*	**Project (Number/Name)** 0610 / *Wpn Sys T&E Trng Dev/Proc*

(QF-16)

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0604258N / *Target Systems Development*	Project (Number/Name) 0612 / *Surface Targets Development*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0612: *Surface Targets Development*	-	1.271	1.366	1.262	-	1.262	1.235	1.302	1.278	1.307	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project develops seaborne targets and their related target augmentation systems in support of air-to-surface and surface-to-surface weapons test and evaluation and fleet training.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Surface Targets Development	1.271	1.366	1.262
Articles:	-	-	-

FY 2013 Accomplishments:

Monitored developments in command and control. Portable Command and Control Unit (PCCU) software baseline update and testing. Reviewed capabilities of inventory with regard to threat, weapons test schedules and fleet training requirements. Re-baselined Radar Cross Sections (RCS) for various powered and towed targets with augmentation. Developed packages to tailor RCS. Developed signature management techniques to address evolving threats. Integrated PCCU into System for Naval Target Control (SNTC).

FY 2014 Plans:

Continue development of short burst data communication by satellite with PCCU aboard seaborne platforms. Evaluate transmission latency and applicability with over the horizon counter-swarm strategies. Support software development and continued testing of the transition to single hardware platform for joint hosting of PCCU and SNTC. Develop PCCU ground station enhancements allowing for control of greater than 15 independent remote targets. Review existing capabilities of seaborne Program of Record (POR) platform inventory with regard to threats, weapons test schedules and evolving fleet training requirements. Evaluate fleet counter-swarm efforts to date and evaluate adequacy of existing POR targets for fleet support. Evaluate high-speed targets with regard to Anti-Surface Warfare (ASuW) weapons test requirements and recommend a path forward. Refine Hummanequin Graphical User Interface (GUI) on PCCU display to ease utility. Improve scoring algorithms for real-time feedback for small caliber weapons. Work with Multiple Integrated Laser Engagement System (MILES) systems developers to incorporate larger shipboard weapon systems with MILES technology. Develop updated Technical Data Package (TDP) for replacement Mobile Ship Target (MST) based upon lessons learned and emerging ship-sized target requirements.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604258N / *Target Systems Development*	**Project (Number/Name)** 0612 / *Surface Targets Development*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Provide cost analysis of new missile capable patrol boat simulator. Initiate development of upgraded polyethylene hull components for towed targets with goal of reduced unit cost and enhanced survivability. Refine design and fabrication of passive Radio Frequency (RF) reflectors across varied aperture lengths to reduce unit cost and ease fabrication. Develop large polyethylene towed target (>50') for ASuW alternatives to high value powered targets. ***FY 2015 Plans:*** Research potential target modifications and operational changes to reduce Explosive Ordnance Disposal (EOD) involvement during exercises involving high explosive (HE) or tracer rounds. Research inboard JP-5 engine version of High Speed Maneuverable Surface Target (HSMST) to increase engine service life when JP-5 fuel is required. Research electronic steering remote control interface for powered seaborne targets. Support software development and continued testing of the transition to single hardware platform for joint hosting of PCCU and SNTC. Test PCCU ground station enhancements allowing for control of greater than 15 independent remote targets. Review existing capabilities of POR seaborne targets inventory with regard to threats, weapons test schedules and evolving fleet training requirements. Evaluate fleet counter-swarm efforts to date and evaluate adequacy of existing POR targets for fleet support. Continue working with MILES systems developers to incorporate larger shipboard weapon systems with MILES technology. Work with MILES systems developers to increase realism and utility of MILES for training against surface threats. Continue refining design and fabrication of passive RF reflectors across varied aperture lengths to reduce unit cost and ease fabrication. Research additional lower cost manufacturing and fielding methods for POR targets.			
Accomplishments/Planned Programs Subtotals	1.271	1.366	1.262

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• OPN/5455: *ASW Range SE*	39.708	22.990	-	-	-	14.682	13.559	11.144	11.379	-	135.601

Remarks

D. Acquisition Strategy

Not applicable.

E. Performance Metrics

Review capability of inventory with respect to threat, weapons test schedules and fleet training requirements. OBJECTIVE: Available inventory of seaborne targets to meet fleet requirements.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0604258N / *Target Systems Development*	Project (Number/Name) 2159 / *ASW TARGET*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2159: *ASW TARGET*	-	-	3.022	9.160	-	9.160	4.076	1.533	1.290	1.347	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

A new cost effective Advanced Expendable Mobile ASW Training Target (new nomenclature MK1 Mod 0 Parrotfish Expendable Target) is required to acoustically and dynamically emulate threat submarines for fleet qualification and proficiency training on and off undersea ranges. Acoustically a new system is required to provide a higher fidelity active sonar system and torpedo sonar system with expanded frequency coverage than current systems to be compatible with sonar and torpedo systems being fielded on the P-8, SH-60R, and AN-SQQ-89 capable surface ships and the MK54 Mod 0 and MK48 Mod 7 Torpedoes. Dynamically the target needs to emulate both low and high speed ends of threat submarines performance envelope to provide needed training realism.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: ASW Target Development	-	3.022	9.160
Articles:	-	-	-
FY 2013 Accomplishments: N/A			
FY 2014 Plans: Support acquisition documentation development and specification development to be supported by risk reduction engineering analysis in areas of transducers, high energy batteries and air launch related technologies. Further engage fleet commands/users to develop and refine detailed system performance requirements, industry engagement, and draft request for proposal release.			
FY 2015 Plans: Continue to support acquisition documentation development and specification development to be supported by risk reduction engineering analysis in areas of transducers, high energy batteries and air launch technologies. Support technical and cost evaluation of contractor proposals for new Advanced Expendable Mobile ASW Training Target. Award development contract for new Advanced Expendable ASW Training Target in second quarter of FY15. Support contractor initial baseline review. Support initial engineering and software development of prototype hardware. Support initial engineering efforts associated with new test equipment to test the new Advanced Expendable Mobile ASW Taining Target.			
Accomplishments/Planned Programs Subtotals	-	3.022	9.160

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604258N / *Target Systems Development*	**Project (Number/Name)** 2159 / *ASW TARGET*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• 3141: *ASW Targets*	9.443	7.135	2.515	-	2.515	6.956	9.912	10.930	11.142	-	89.836

Remarks

D. Acquisition Strategy

Not applicable

E. Performance Metrics

- Frequent IPT meetings with contract and government technical program personnel.
- Rigorous acoustic, environmental and in-water dynamic test program.
- Specification with threshold and objectives requirements.
- Issue initial RFI to industry.
- Draft RFP released for industry review

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy* / BA 6: *RDT&E Management Support*					R-1 Program Element (Number/Name) PE 0604759N / *Major T&E Investment*							
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
Total Program Element	0.000	32.989	38.033	123.993	-	123.993	62.526	44.986	42.128	42.429	Continuing	Continuing
2195: *T & E Investment*	0.000	32.989	38.033	123.993	-	123.993	62.526	44.986	42.128	42.429	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project corrects major deficiencies, improves Test & Evaluation (T&E) capabilities, and increases T&E support effectiveness at Navy Major Range and Test Facility Base. The T&E Investment project provides improved test capabilities at the following test facilities: the Naval Undersea Warfare Center Division Newport Atlantic Undersea Test and Evaluation Center, Andros Island, Bahamas; the Nanoose and Dabob ranges of the Naval Undersea Warfare Center Division Keyport, Keyport, WA; the Sea Range, Land Range, Electronic Combat Range, Targets, Ordnance T&E Facility, Test Wing Pacific, and the Air Vehicle Modification and Instrumentation facility located at the Naval Air Warfare Center Weapons Division, Point Mugu, CA and China Lake, CA; and the Atlantic Test Range, Air Combat Environment T&E Facility, Electromagnetic Environmental Effects, Air Vehicle Modification and Instrumentation facility, Test Wing Atlantic, Targets, and the Propulsion Systems Evaluation Facility located at the Naval Air Warfare Center Aircraft Division, Patuxent River, MD and the test and evaluation capabilities located at the Pacific Missile Range Facility, Kauai, HI.

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under RESEARCH, DEVELOPMENT, TEST and EVALUATION MANAGEMENT SUPPORT because it supports efforts directed toward sustaining or modernizing installations or operations required for general research, development, test and evaluation.

B. Program Change Summary ($ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	35.894	38.033	38.976	-	38.976
Current President's Budget	32.989	38.033	123.993	-	123.993
Total Adjustments	-2.905	-	85.017	-	85.017
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	-	-	0.068	-	0.068
• Rate/Misc Adjustments	-	-	84.949	-	84.949
• Congressional General Reductions Adjustments	-2.905	-	-	-	-

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy	Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0604759N *I Major T&E Investment*

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0604759N / *Major T&E Investment*	Project (Number/Name) 2195 / *T & E Investment*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2195: *T & E Investment*	-	32.989	38.033	123.993	-	123.993	62.526	44.986	42.128	42.429	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project corrects major deficiencies, improves Test & Evaluation (T&E) capabilities, and increases T&E support effectiveness at Navy Major Range and Test Facility Base. The T&E Investment project provides improved test capabilities at the following test facilities: the Naval Undersea Warfare Center Division Newport Atlantic Undersea Test and Evaluation Center (AUTEC), Andros Island, Bahamas; the Nanoose and Dabob ranges of the Naval Undersea Warfare Center Division Keyport, Keyport, WA; the Sea Range, Land Range, Electronic Combat Range, Targets, Ordnance T&E Facility, Test Wing Pacific, and the Air Vehicle Modification and Instrumentation facility located at the Naval Air Warfare Center Weapons Division, Point Mugu, CA and China Lake, CA; and the Atlantic Test Range, Air Combat Environment T&E Facility, Electromagnetic Environmental Effects, Air Vehicle Modification and Instrumentation facility, Test Wing Atlantic, Targets, and the Propulsion Systems Evaluation Facility located at the Naval Air Warfare Center Aircraft Division, Patuxent River, MD and the test and evaluation capabilities located at the Pacific Missile Range Facility, Kauai, HI.

The increase in funding in FY 2015 is for procurement of a Range Support Aircraft (RSA). RSA will provide range clearance and Beyond Line-of-Sight (BLoS) Telemetry (TM) and Flight Termination Services (FTS) on Navy sea ranges - primarily Pt. Mugu, CA and Pacific Missile Range Facility, HI. The current TM equipped P-3 aircraft must be replaced because the airframe is not supportable beyond FY 2019.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: UNDERSEA RANGE INVESTMENTS	7.700	6.700	7.437
Articles:	-	-	-
Description: This effort funds the modernization, upgrades, and new test and evaluation capabilities required at the Navy's Major Range Test Facility Base undersea ranges, to include AUTEC, Andros Island, Bahamas; the Nanoose and Dabob ranges of the Naval Undersea Warfare Center Division Keyport, Keyport, WA.			
FY 2013 Accomplishments: - Continued the minor upgrade and modernization of test capabilities at AUTEC, Nanoose and Dabob. - Continued the upgrade to the T&E target at Nanoose and Dabob. - Initiated and completed the development and installation of broadband capable T&E targets at Nanoose and Dabob. - Initiated the refurbishment and service life extension of a range vessel at AUTEC. - Initiated the development of Information Operations T&E capability at AUTEC.			
FY 2014 Plans: - Continue the minor upgrade and modernization of test capabilities at AUTEC, Nanoose and Dabob.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604759N / *Major T&E Investment*	**Project (Number/Name)** 2195 / *T & E Investment*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Continue the development of Information Operations T&E capability at AUTEC. - Complete the refurbishment and service life extension of a range vessel at AUTEC. - Initiate range data information assurance project at Nanoose and Dabob. - Initiate range noise monitoring project at Nanoose and Dabob. - Initiate range radar obsolescence project at Nanoose and Dabob. ***FY 2015 Plans:*** - Continue the minor upgrade and modernization of test capabilities at Atlantic Undersea Test and Evaluation Center (AUTEC), Nanoose and Dabob. - Continue the development of Information Operations Test & Evaluation (T&E) capability at AUTEC. - Continue range data information assurance project at Nanoose and Dabob. - Complete range noise monitoring project at Nanoose and Dabob. - Complete the upgrade to the T&E target at Nanoose and Dabob. - Initiate replacement of in-water sensors at AUTEC. - Initiate range craft service life extension at Nanoose and Dabob. - Initiate and complete tracking radar replacement at Nanoose and Dabob.			
Title: OPEN AIR RANGE INVESTMENTS	18.164	30.233	114.933
Articles:	-	-	-
Description: This effort funds the modernization and upgrades of existing capabilities and the development of new T&E capabilities required at the Navy's Major Range Test Facility Base open air ranges at the Naval Air Warfare Center Aircraft Division (NAWCAD), Patuxent River, MD, Naval Air Warfare Center Weapons Division (NAWCWD), Point Mugu, CA and China Lake, CA and Pacific Missile Range Facility (PMRF), Kauai, HI. The increase in funding in FY 2015 is for procurement of a Range Support Aircraft (RSA). RSA will provide range clearance and Beyond Line-of-Sight (BLoS) Telemetry (TM) and Flight Termination Services (FTS) on Navy sea ranges - primarily Pt. Mugu, CA and Pacific Missile Range Facility, HI. The current TM equipped P-3 aircraft must be replaced because the airframe is not supportable beyond FY 2019. ***FY 2013 Accomplishments:*** - Continued the minor upgrade and modernization of test capabilities at NAWCAD, NAWCWD and PMRF. - Continued radar service life extension project at NAWCAD. - Continued video instrumentation modernization at NAWCAD. - Completed the modernization and upgrade of crypto equipment at NAWCAD, NAWCWD and PMRF. - Completed the development and installation of a remote telemetry system for San Nicolas Island at NAWCWD. - Completed the modernization of the Kineto Tracking Mounts at NAWCWD.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604759N / *Major T&E Investment*	**Project (Number/Name)** 2195 / *T & E Investment*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Completed telemetry re-radiation pod modernization at NAWCAD. - Continued cultural resources surveys at NAWCWD. - Initiated development of the Aircraft Prototype Facility secure network at NAWCAD. ***FY 2014 Plans:*** - Continue the minor upgrade and modernization of test capabilities at NAWCAD, NAWCWD and PMRF. - Continue cultural resources surveys at Naval Air Warfare Center Weapons Division (NAWCWD). - Continue development of the Aircraft Prototype Facility secure network at Naval Warfare Center Aircraft Division (NAWCAD). - Complete radar service life extension project at NAWCAD. - Complete video instrumentation modernization at NAWCAD. - Initiate upgrade to the Land Range communications infrastructure. - Initiate Sea Range telemetry antenna servo upgrades. - Initiate procurement of new aircraft position tracking system. - Initiate and complete the purchase of secure network system for the aircraft prototyping facility. - Initiate the replacement of the voice switch at NAWCAD. - Initiate and complete the upgrade to the airborne separation video system at NAWCAD. - Initiate and complete the modernization of a radar signal processor at NAWCAD. - Initiate the modernization of the Kineto Tracking Mounts at NAWCAD. - Initiate the modernization of the telemetry system at Pacific Missile Range Facility (PMRF). - Initiate the modernization of object tracking radars at PMRF. ***FY 2015 Plans:*** - Continue the minor upgrade and modernization of test capabilities at NAWCAD, NAWCWD and PMRF. - Continue Sea Range telemetry antenna servo upgrades. - Continue procurement of new aircraft position tracking system. - Continue the upgrade to the airborne separation video system at NAWCAD. - Continue the modernization of the Kineto Tracking Mounts at NAWCAD. - Continue the modernization of the telemetry system at PMRF. - Complete upgrade to the Land Range communications infrastructure. - Complete cultural resources surveys at NAWCWD. - Complete the purchase of secure network system for the aircraft prototyping facility. - Complete the replacement of the voice switch at NAWCAD. - Initiate the modernization of the imaging radar at PMRF. - Initiate the modernization of the moving target scoring system at NAWCWD. - Initiate video microwave link replacement at NAWCWD. - Initiate target vessel modernization at NAWCWD.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604759N / *Major T&E Investment*	**Project (Number/Name)** 2195 / *T & E Investment*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Initiate procurement of Range Support Aircraft.			
Title: TEST FACILITIES INVESTMENTS	7.125	1.100	1.623
Articles:	-	-	-
Description: This effort funds the modernization and upgrades of existing capabilities and the development of new Naval Air Warfare Center Aircraft Division (NAWCAD), Patuxent River, MD, and Naval Air Warfare Center Weapon Division (NAWCWD), Point Mugu, CA and China Lake, CA. ***FY 2013 Accomplishments:*** - Continued the minor upgrade and modernization of test capabilities at NAWCAD and NAWCWD. - Completed the helicopter drive system test facility sustainment program at NAWCAD. - Completed the bio-fuel blending and evaluation facility development at NAWCAD. - Initiated and completed the development of a Joint Precision Approach and Landing System capability at NAWCAD. ***FY 2014 Plans:*** - Continue the minor upgrade and modernization of test capabilities at NAWCAD and NAWCWD. - Initiate the upgrade to general instrumentation and equipment. ***FY 2015 Plans:*** - Continue the minor upgrade and modernization of test capabilities at NAWCAD and NAWCWD. - Continue the upgrade to general instrumentation and equipment. - Initiate the modernization of the helicopter propulsion data acquisition system.			
Accomplishments/Planned Programs Subtotals	32.989	38.033	123.993

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not Applicable.

E. Performance Metrics

Successfully achieve Initial Operational Capability of 8-15 Improvement and Modernization projects per year and have 90% of test capabilities scheduled in support of Navy acquisition test programs within 180 days.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy	Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0605126N *I (U)Joint Theater Air and Missile Defense Org*

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	5.829	1.352	4.960	-	4.960	7.172	3.132	-	-	-	22.445
3307: *Maritime Integrated Air and Missile Defense (IAMD) Processing Sys (MIPS)*	0.000	5.829	1.352	4.960	-	4.960	7.172	3.132	-	-	-	22.445

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Maritime Integrated Air and Missile Defense (IAMD) Planning System (MIPS) is an automated air and missile defense planning tool that supports the Joint Force Maritime Component Commander at the operational level of war by automatically and optimally allocating and stationing ships in support of Ballistic Missile Defense (BMD) or Anti-Air Warfare (AAW). MIPS contains United States Army Patriot and Terminal High Altitude Air Defense (THAAD) models to ensure synergistic allocation and positioning of maritime units in relation to other joint units, providing optimized mutual defense for selected defended assets against selected BMD and AAW threats. MIPS is currently developing significantly improved inorganic Ballistic Missile Defense planning capabilities through the incorporation of Long Range Surveillance and Training, Cued Engagement, and Launch on Tactical Digital Information Links (TADIL) planning functionality. In FY2015, MIPS will begin development to deliver an automated planning capability for Naval Integrated Fire Control-Counter Air (NIFC-CA) operations.

B. Program Change Summary ($ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	7.573	1.352	0.824	-	0.824
Current President's Budget	5.829	1.352	4.960	-	4.960
Total Adjustments	-1.744	-	4.136	-	4.136
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.169	-			
• Program Adjustments	-	-	4.237	-	4.237
• Rate/Misc Adjustments	-	-	-0.101	-	-0.101
• Congressional General Reductions Adjustments	-0.575	-	-	-	-
• Congressional Directed Reductions Adjustments	-1.000	-	-	-	-

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy	Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0605126N *I (U)Joint Theater Air and Missile Defense Org*

Change Summary Explanation

Program Adjustments: Naval Integrated Fire Control-Counter Air (NIFC-CA), a new capability, enhances the air defense capability of the Fleet. Funding commencing in FY 15 is required for the inclusion of NIFC-CA into MIPS operational planning and is essential for proper placement of Fleet assets to maximize NIFC-CA mission success.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605126N / *(U)Joint Theater Air and Missile Defense Org*				Project (Number/Name) 3307 / *Maritime Integrated Air and Missile Defense (IAMD) Processing Sys (MIPS)*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
3307: *Maritime Integrated Air and Missile Defense (IAMD) Processing Sys (MIPS)*	-	5.829	1.352	4.960	-	4.960	7.172	3.132	-	-	-	22.445
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Maritime Integrated Air and Missile Defense (IAMD) Planning System (MIPS) is an automated air and missile defense planning tool that supports the Joint Force Maritime Component Commander at the operational level of war by automatically and optimally allocating and stationing ships in support of Ballistic Missile Defense (BMD) or Anti-Air Warfare (AAW). MIPS contains United States Army Patriot and Terminal High Altitude Air Defense (THAAD) models to ensure synergistic allocation and positioning of maritime units in relation to other joint units, providing optimized mutual defense for selected defended assets against selected BMD and AAW threats. MIPS is currently developing significantly improved inorganic Ballistic Missile Defense planning capabilities through the incorporation of Long Range Surveillance and Training, Cued Engagement, and Launch on Tactical Digital Information Links (TADIL) planning functionality. In FY2015, MIPS will begin development to deliver an automated planning capability for Naval Integrated Fire Control-Counter Air (NIFC-CA) operations.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Systems Engineering	5.829	1.352	4.960
Articles:	-	-	-
FY 2013 Accomplishments: Provided system update that includes the incorporation of functionality for Bottom Contours, LRS&T, Launch on TADIL, Cued Engagement and CEC stationing planning capabilities.			
FY 2014 Plans: Continue to provide system updates that includes incorporation of Bottom Contours, LRS&T, Launch on TADIL, Cued Engagement and CEC stationing planning capabilities. Conduct test and evaluation events.			
FY 2015 Plans: Provide system update that includes development of NIFC-CA planning capability of the model updates for Bottom Contours, LRS&T, Launch on TADIL, Cued Engagement and CEC stationing.			
Accomplishments/Planned Programs Subtotals	5.829	1.352	4.960

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605126N / *(U)Joint Theater Air and Missile Defense Org*	**Project (Number/Name)** 3307 / *Maritime Integrated Air and Missile Defense (IAMD) Processing Sys (MIPS)*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• OPN/5265: *MIPS*	3.652	2.779	-	-	-	-	-	-	-	-	11.097

Remarks

D. Acquisition Strategy

ACAT 3 designation granted February 2011.

Contracts:
MIPS RDT&E FY12-FY15

E. Performance Metrics

FY13:
- Commenced development of LRS&T, Cued Engagement, and Launch on TADIL planning capabilities.
- Conducted quarterly working groups to identify and manage model update priorities and resolve programmatic/technical issues.
- Conducted Technical Interchange Meetings as needed to explore and resolve design and test and evaluation requirements.

FY14:
- Continue development of LRS&T, Cued Engagement, and Launch on TADIL planning capabilities.
- Conduct test and evaluate developmental tests in support of software development efforts.
- Conduct Technical Interchange Meetings (TIM) as needed to explore and resolve emergent design and requirement issues.

FY15:
- Commence development of NIFC-CA planning capability.
- Continue to conduct DT and OT to support fielding the new software.
- Conduct TIMs as needed to explore and resolve emergent design and requirement issues.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*					R-1 Program Element (Number/Name) PE 0605152N *I Studies & Analysis Supt - Navy*							
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
Total Program Element	0.000	15.996	5.553	8.296	-	8.296	5.937	4.682	4.698	4.787	Continuing	Continuing
0133: *National Acad Sci/Stud Board*	0.000	1.268	-	-	-	-	-	-	-	-	-	1.268
2092.: *Naval Warfare Studies*	0.000	7.107	0.775	0.744	-	0.744	0.757	0.778	0.793	0.810	Continuing	Continuing
2097: *Manpower Personnel & Training*	0.000	0.700	0.696	0.500	-	0.500	0.500	0.500	0.500	0.500	Continuing	Continuing
3310: *Naval Aviation Developmental Planning*	0.000	3.749	4.082	2.258	-	2.258	2.997	3.404	3.405	3.477	Continuing	Continuing
3339: *Carrier Onboard Deliver Recapitalization*	0.000	3.172	-	-	-	-	-	-	-	-	-	3.172
3365: *FA-XX (Next Generation Fighter)*	0.000	-	-	4.794	-	4.794	1.683	-	-	-	-	6.477

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under RESEARCH, DEVELOPMENT, TEST and EVALUATION MANAGEMENT SUPPORT because it supports efforts directed toward sustaining or modernizing installations or operations required for general research, development, test and evaluation.

This program provides analytical support to the Secretary of the Navy and the Chief of Naval Operations as a basis for major policy, planning and acquisition program execution decisions. It supports research and development strategy development and planning. It supports studies in the areas of manpower, personnel, training, and aviation. It also develops analytical tools for evaluating effectiveness of U.S. weapons against potential foreign threat ships and submarines.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy					Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy* / BA 6: *RDT&E Management Support*			R-1 Program Element (Number/Name) PE 0605152N / *Studies & Analysis Supt - Navy*		
B. Program Change Summary ($ in Millions)	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO**	**FY 2015 Total**
Previous President's Budget	20.963	5.566	6.257	-	6.257
Current President's Budget	15.996	5.553	8.296	-	8.296
Total Adjustments	-4.967	-0.013	2.039	-	2.039
• Congressional General Reductions	-	-0.013			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.561	-			
• Program Adjustments	-	-	5.500	-	5.500
• Rate/Misc Adjustments	-0.001	-	-3.461	-	-3.461
• Congressional General Reductions Adjustments	-1.405	-	-	-	-
• Congressional Directed Reductions Adjustments	-3.000	-	-	-	-

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605152N / *Studies & Analysis Supt - Navy*	Project (Number/Name) 0133 / *National Acad Sci/Stud Board*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0133: *National Acad Sci/Stud Board*	-	1.268	-	-	-	-	-	-	-	-	-	1.268
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project supports the core program for the Naval Studies Board. As agreed upon between the Chief of Naval Operations (CNO) and the President of the National Academy of Sciences and with appropriate attention to the influence of the domestic economy, national objectives, social imperatives and anticipated military requirements, the Naval Studies Board will conduct and report upon surveys, investigations, and analyses in the field of scientific research and development applicable to the operation and function of the Navy. Reports consist of a briefing to the Assistant Secretary of the Navy (Research Development and Acquisition) and the CNO and staff, and written technical reports.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: National Acad Sci/Stud Board	1.268	-	-
Articles:	-	-	-
Description: This project has been discontinued after FY13. ***FY 2013 Accomplishments:*** - Continue research efforts and investigations in areas of interest to the Navy. - Complete studies initiated in FY12. - Initiate new studies to be selected by the CNO during FY13. ***FY 2014 Plans:*** N/A ***FY 2015 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	1.268	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605152N / *Studies & Analysis Supt - Navy*	**Project (Number/Name)** 0133 / *National Acad Sci/Stud Board*

D. Acquisition Strategy

N/A

E. Performance Metrics

Conduct and report upon surveys, investigations, and analyses in the field of scientific research and development applicable to the operations and function of the Navy in a timely manner.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605152N / *Studies & Analysis Supt - Navy*	Project (Number/Name) 2092. / *Naval Warfare Studies*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2092.: *Naval Warfare Studies*	-	7.107	0.775	0.744	-	0.744	0.757	0.778	0.793	0.810	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project supports detailed mission, capability, and technical analysis of future naval warfighting requirements. This work provides the analytical basis for integration and prioritization of overall military capability requirements and acquisition programs in support of executing the Naval Capability Development Process and development/delivery of Mission Capability Packages, Naval Capability Packages, and Integrated Strategic Capability Plans for Chief of Naval Operations.
Concept formulation for ships, boats and unmanned maritime vehicles must be continuously exercised to remain viable. It takes years to train competent practitioners, and knowledge currency is quickly lost without practice. Evolving threats and technologies drive concepts (and the tools, processes, and skills needed to produce them) towards obsolescence without constant attention. Capability Based Assessments and Analysis of Alternatives (AoA) timelines are insufficient for establishing potential material solution cost versus capability relationships without significant concept formulation work beforehand. Active collaboration between the Office of the Chief of Naval Operations requirement sponsors, Program Offices, and the various System Command (Naval Sea Systems Command, Naval Air Systems Command and Space and Naval Warfare Systems Command) engineers is critical for fully exploring the trade space by conducting analysis for affordability, effectiveness and risk.
The majority of Total Ownership Cost (TOC) is locked into a design before it is even a program. In the later stages of a program it becomes much more costly to make changes that will significantly impact TOC. Investment up front in concept design can have a high payoff in TOC reduction over the life of a platform class.
This project funds concept development engineering, mission effectiveness analysis, and other analyses for formulation of future surface ship and associated platform force structure along with development of the tools to accomplish these efforts. Advanced platform concept studies and systems technology assessments will be conducted as will the development and upgrade of concept design and engineering tools, methods, and criteria.
Outputs include concept costing and performance parameterization for comparative assessment against capability objectives and synthesis to quantify overall (Fleet) capabilities. These products (expressions of cost vs. capability) will serve as the basis of requirements and Joint Capabilities Integration and Development System analysis, define the trade space for AoA efforts, and underpin discussion of force architecture/structure during Quadrennial Defense Review, Long Range Shipbuilding Strategy builds, and Joint Requirements Oversight Council reviews.

Beginning in FY 2014, funding for these efforts, except for the Portfolio Management Decision Support System, is being shifted to PE 0605853N, Management, Technical, & International Support, Project 2221, Joint Mission Assessment Studies, to better align these efforts with other Navy capability analysis efforts.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Naval Warfighting Assessments	4.483	-	-
Articles:	-	-	-
FY 2013 Accomplishments:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605152N / *Studies & Analysis Supt - Navy*	**Project (Number/Name)** 2092. / *Naval Warfare Studies*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Continued to perform future warfighting capability assessments, including cost-to-capability assessments, mission level modeling and simulation including world class modeling initiatives, and analysis integration across all joint capability areas and Sea Power 21 warfare areas. Assessed capability sponsors' products for Navy senior leadership decision forums. Performed collaborative assessment with capability sponsors. Proactively participate in capability sponsors' integrated processing teams. Presented opposing analytically based points of view to the Chief of Naval Operations (CNO) and Navy senior leadership. Provided analytically based decision recommendations to CNO for both warfighting and support areas. Developed investment strategy recommendations and perform assessments for program review and Program Objective Memorandum (POM). Conducted Overseas Contingency Operation (OCO) capabilities-based assessment (CBA) that provided a rapid and scalable process to utilize a concept of operation and developed investment strategy and a capability roadmap. Conducted tactical aircraft recapitalization alternatives and theater ballistic missile defense cost capability tradeoff assessments. Conducted independent assessment of anti-submarine warfare. Conducted weapons safety and sea basing capabilities assessments. Conducted intelligence-surveillance-reconnaissance (ISR) and meteorological and oceanographic (METOC) assessment to determine the optimal mix of Naval ISR and METOC sensors, platforms, and processing, and analysis and fusion disposition to support major combat operations (MCOs), the OCO, and intelligence preparation of the environment for both MCOs and OCO. Performed CBAs to meet the requirements of current and future scenarios, and make strategic decisions within a constrained economic framework. Performed rigorous, time-critical Naval and joint campaign and mission-level analyses, usually based on modeling and simulation that illuminated complex warfare issues that supported decision-making in the planning, programming, budgeting, and execution process. Performed analyses and provided technical and engineering support, including joint campaign analysis that examined the capability to counter a range of coordinate threat capabilities, high-level tradeoffs between service capabilities, or impact of large-scale architecture, mission-level effectiveness analyses that determine system capabilities; and conduct analyses of alternative force structures that determined the capability to meet peacetime deployment or steady-state requirements and respond to transition to war and contingency operations. Conducted cost analyses, cost-effectiveness analyses, and analyses of new technologies in support of Sponsor Program Proposal, Navy Program Objective Memorandum, and Warfare Capability Plan. Developed innovative analysis techniques that evaluate the effectiveness of operations on the long war focus on irregular warfare and sea shaping (influence) activities such as theater security cooperation. Provided rigorous business case assessments of complex issues relating to the warfighting support processes, manpower and personnel, training and education, infrastructure, both afloat and ashore readiness, Naval medical program, and provider enterprise operations. Used estimate cost and performance of performance-based modeled programs such as the flying hour program, ship operations, ship and aircraft maintenance, spares, facilities, and base operation support. Coordinated and led Office of the Secretary of Defense (OSD)/Navy's Analytic Agenda in Defense Planning Scenario, Multi-Service Force Deployment, Enhanced Planning Process, and Strategic Planning Guidance. Coordinated and led Navy's role in Defense Planning Guidance, Program Decision Memoranda, Quadrennial Defense Review, and Defense Science Board studies. Participated in OSD and Joint Staff analysis assessment and provided structure for coordination across the Navy. Developed new analytic techniques for informing resource allocation decision, and			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605152N / *Studies & Analysis Supt - Navy*	**Project (Number/Name)** 2092. / *Naval Warfare Studies*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
conducted all campaign and warfare mission-level analyses and developed investment strategy. Completed the detailed analysis of country's Riverine Force Structure, focusing on selected Navies in the AFRICACOM area of responsibility. ***FY 2014 Plans:*** N/A ***FY 2015 Plans:*** N/A			
Title: Portfolio Management Decision Support System/Resource Allocation Model ***Articles:*** ***Description:*** Portfolio Management Decision Support System: An analytic portfolio management methodology to aid Navy leadership with investment programming decision support. ***FY 2013 Accomplishments:*** Continued establishing the Resource Allocation Model/Portfolio Management Decision Support System to provide an analytic portfolio management methodology to aid Navy leadership with investment decision support. Provided an assessment process that fostered informed, understandable, repeatable, investment decisions with consistent, pedigreed, and retrievable information. Assessed programs of record and their proposed modifications on their capability to contribute to future warfighting requirements. ***FY 2014 Plans:*** Continue establishing the Resource Allocation Model/Portfolio Mananagement Decision Support System to provide an analytic portfolio management methodology to aid Navy leadership with investment decision support. Provide an assessment process that fosters informed, understandable, repeatable investment decisions with consistent, pedigreed, and retrievable information. Assess programs of record and their proposed modifications on their capability to contribute to future warfighting requirements. ***FY 2015 Plans:*** Continue establishing the Resource Allocation Model to provide an analytic portfolio management methodology to aid Navy leadership with investment decision support. Provide an assessment process that fosters informed, understandable, repeatable investment decisions with consistent, pedigreed, and retrievable information. Assess programs of record and their proposed modifications on their capability to contribute to future warfighting requirements. Develop techniques that optimize the usage of the Warfare Capability Baseline Kill Chain data and enable capability trade-offs based on sound algorithmic or mathematical analysis.	0.854 -	0.775 -	0.744 -
Title: CONFORM 1.0 Ship Concept Formulation ***Articles:*** ***Description:*** Conduct ship, boat and unmanned marine vehicle concept studies in support of the Long Range Shipbuilding Schedule (LRSS) in preparation for Capabilities Based Assessments (CBAs) and Analysis of Alternatives (AoAs). Studies will be	0.643 -	- -	- -

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605152N / *Studies & Analysis Supt - Navy*	**Project (Number/Name)** 2092. / *Naval Warfare Studies*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
performed in a continuous manner to support future recapitalization of Surface Combatants, Amphibious Ships, Carriers, Auxiliary Ships and other emerging program requirements. ***FY 2013 Accomplishments:*** Conduct concept studies in support of anticipated CBAs, AoAs, and other future requirement studies; including for Landing Ship (Dock) [LSD(X)], hospital ship replacement, submarine tender replacement, medium surface combatant, arctic mission platform, ocean surveillance ship replacement, and unmanned marine vehicle. ***FY 2014 Plans:*** N/A ***FY 2015 Plans:*** N/A			
Title: CONFORM 2.0 Warfare Systems Design and Analysis	0.575	-	-
Articles:	-	-	-
Description: Collaborate with Warfare Systems design experts to perform continuous Warfare Systems analysis at the ship and fleet level. Warfare Systems effectiveness assessment tools will be continually developed and enhanced as required to address future concepts and to incorporate improvements in information technology systems. Additionally, collaboration with aircraft, C4ISR, and networks by continuing dialog and collaboration between NAVSEA, NAVAIR, and SPAWAR systems commands will refine fleet level requirements. ***FY 2013 Accomplishments:*** Investigate the replacement of manned off board systems with unmanned systems on all Navy surface ships and the resultant impact to ship, combat systems and personnel. Evaluate the C4ISR requirements to support unmanned systems operations and integration with the ship and strike group. Assess the impact on ship kinetic weapon capacities and distribution of combat systems/weapon inventories at the operational and fleet level and investigate alternative fleet design(s) incorporating future ship concepts to improve the fleet "balance" of kinetic and non-kinetic systems with a goal to increase weapon capacities operationally available while maintaining effective mission capability at minimal cost. Identify the existing/future kinetic and non-kinetic mission, system, and service architectures across the Navy Enterprise and how they do or do not (gap) support enhanced mission effectiveness through combined kinetic/non-kinetic operations. ***FY 2014 Plans:*** N/A ***FY 2015 Plans:***			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605152N / *Studies & Analysis Supt - Navy*	**Project (Number/Name)** 2092. / *Naval Warfare Studies*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
N/A			
Title: CONFORM 3.0 Cost Analysis	0.452	-	-
Articles:	-	-	-
Description: Refine platform concept stage cost analysis tools to predict cost better in areas where weight based algorithms may not be appropriate. It will continually enhance tools to estimate total ownership cost more accurately at the ship and weapons system concept development stage. Conduct cost estimates in support of future concept design exploration, CBA, and AoA efforts. Further develop Cost Estimating Relationships (CERs) to accommodate emerging technologies incorporated in future platforms. Develop cost estimating tools which incorporate emerging technologies applicable to future platforms.			
FY 2013 Accomplishments: Develop cost estimates and projections of warfare systems and technologies in support of future ship concept design exploration and other CBA and AoA cost analysis efforts. Investigate methodologies and tools necessary to detail warfare system combat system cost estimates and cost projections in support of future ship concept design.			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Title: CONFORM 4.0 Force Architecture Analysis Related To Ship Systems Engineering	0.100	-	-
Articles:	-	-	-
Description: Conduct future force structure concept formulation in support of the LRSS. Fleet synthesis and analysis will be conducted, which includes capabilities requirements, platform design and cost and quantitative tracking of the long-term evolution of the fleet as new platforms are introduced and old ones are retired. Among the areas to be examined are interoperability concepts, force architecture impact studies, LRSS support, and operational employment concept studies.			
FY 2013 Accomplishments: Perform a historical analysis of Service Life Extension Program (SLEP) studies to determine the expected level of effort required and the impacts of such programs on extending ship service life.			
FY 2014 Plans: N/A			
FY 2015 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605152N / *Studies & Analysis Supt - Navy*	**Project (Number/Name)** 2092. / *Naval Warfare Studies*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
N/A			
Accomplishments/Planned Programs Subtotals	7.107	0.775	0.744

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• 0204202N: *DDG-1000*	124.655	149.281	153.576	-	153.576	109.767	66.693	38.524	-	-	1,749.272
• 0603563N: *Ship Concept Advanced Design*	24.609	20.726	16.003	-	16.003	15.829	7.949	8.094	-	-	230.766
• 0603564N: *Ship Preliminary Design & Feasibility Studies*	13.710	28.012	39.017	-	39.017	30.300	66.000	26.504	-	-	262.169

Remarks

D. Acquisition Strategy

Not applicable.
Not applicable

E. Performance Metrics

Naval Warfighting Assessment - Review 40 tasks for Integrated Analytic Agenda in support of technical executability, deconflict internally, and eliminate redundancy with work previously done. Complete 37 tasks for decision superiority, 21 tasks for global maritime security, 13 tasks for sea control, and 5 tasks for power projection. Produce and deliver Analytical Agenda briefings and assessments.

The Portfolio Management Decision Support System (PMDSS) is an analytic Portfolio Management Methodology used to aid Navy leadership with both investment and divestment programming decisions. This methodology provides an assessment process that fosters informed, understandable, repeatable investment decisions with consistent, pedigreed, and retrievable information. The focus of this effort is to refine the system to identify programs as potential candidates for divestment. It provides leadership and resource sponsors with a starting point for their offset decision process as well as an issue ranking capability. PMDSS will include linkage of programs to N3/N5 strategic imperatives, programs mapped to warfare areas, program interdependencies annotated, and balance factors that can be adjusted to reflect Navy Leadership Priorities. The effort expands on PMDSS by capturing and mapping issues/funding adjustments, and providing a system capable of identifying fiscal interdependencies and consideration to risk in order to increase accuracy in calculating programmatic risk.

The Resource Allocation Model (RAM) is an analytic Portfolio Management Methodology used to aid Navy leadership with both investment and divestment programming decisions. This methodology provides an assessment process that fosters informed, understandable, repeatable investment decisions with consistent, pedigreed, and retrievable information. The focus of this effort is to refine the system to identify programs as potential candidates for divestment. It provides leadership and resource

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605152N / *Studies & Analysis Supt - Navy*	**Project (Number/Name)** 2092. / *Naval Warfare Studies*

sponsors with a starting point for their offset decision process as well as an issue ranking capability. RAM will include linkage of programs to N3/N5 strategic imperatives, programs mapped to warfare areas, program interdependencies annotated, and balance factors that can be adjusted to reflect Navy Leadership Priorities. The effort expands on PMDSS by capturing and mapping issues/funding adjustments, and providing a system capable of identifying fiscal interdependencies and consideration to risk in order to increase accuracy in calculating programmatic risk.

CONFORM - Complete one technical study annually in support of emerging or planned capabilities.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605152N / *Studies & Analysis Supt - Navy*	Project (Number/Name) 2097 / *Manpower Personnel & Training*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2097: *Manpower Personnel & Training*	-	0.700	0.696	0.500	-	0.500	0.500	0.500	0.500	0.500	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Chief of Naval Personnel has a continuing need for studies and analysis of Manpower and Personnel (M&P) policies and programs and critical M&P issues that have Navy-wide implications. This project provides an essential management tool to: (a) assess the effectiveness of existing M&P policies and programs; (b) identify needs for new policies and programs; (c) determine the required manpower and training mix relative to changing demographic, societal and legislative/regulatory actions, and to evolving strategic and geopolitical factors; (d) study the impact of M&P programs on Navy accession, attrition, retention, and performance; and, (e) to develop, validate and/or refine a broad range of M&P forecasting models. The program permits Navy to more effectively utilize Research and Development expertise to respond to emergent M&P issues on a continuing basis. This program is funded under RDT&E operational systems development because it encompasses engineering and development of new end-items prior to production approval decision.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Manpower Personnel & Training	0.700	0.696	0.500
Articles:	7.000	7.000	5.000

FY 2013 Accomplishments:
- Assessed Econometric Modeling System and updated elasticities.
- Assessed and updated elasticities used in the Recruiting PRO Model.
- Assessed SRB Policies.
- Assessed Special and Incentive Pay policies.
- Assessed and evaluated retention, accession and training trade-offs.
- Assessed economic factors and relationships to MPTE business lines ISO forecasting and responses.
- Assessed factors, thresholds and mitigation strategies to avoid a Hollow Force.

FY 2014 Plans:
- Continue assessing Econometric Modeling System and updating elasticities.
- Continue assessing and updating elasticities used in the Recruiting PRO Model.
- Continue assessing SRB Policies.
- Continue assessing Special and Incentive Pay policies.
- Continue assessing and evaluating retention, accession and training trade-offs.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605152N / *Studies & Analysis Supt - Navy*	**Project (Number/Name)** 2097 / *Manpower Personnel & Training*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Continue assessing economic factors and relationships to MPTE business lines ISO forecasting and responses. - Continue assessing factors, thresholds and mitigation strategies to avoid a Hollow Force. ***FY 2015 Plans:*** - Continue assessing Econometric Modeling System and updating elasticities. - Continue assessing Special and Incentive Pay policies. - Continue assessing and evaluating retention, accession and training trade-offs. - Continue assessing economic factors and relationships to MPTE business lines ISO forecasting and responses. - Continue assessing factors, thresholds and mitigation strategies to avoid a Hollow Force.			
Accomplishments/Planned Programs Subtotals	0.700	0.696	0.500

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

This PE provides funding to support continuing need for studies and analysis of issues critical to decisions required by the Chief of Naval Personnel and his staff regarding manpower, personnel, training and education policies, and programs that have far-reaching implications to service members and the Navy budget. This PE supports research of both Naval Postgraduate School faculty and students, and in FY10 began the formulation of focused economic research, to include behavioral economics. This focus will provide continuing analysis and research to facilitate the data gathering and synthesis to provide consistent and timely update to economic indicators to use in the numerous models that support management decisions within the MPTE arena that have significant impact on the efficient use of the nearly $27B Manpower & Personnel, Navy budget. The economic research will consolidate the data necessary to perform elasticity estimations and maintain this data for subsequent estimations. To gather the data necessary to perform such estimations, would conservatively cost more than $300K on each such occasion. The MPTE enterprise uses dozens of models, most of which require elasticity updates. Consolidating the data repository to support this analysis will result in a cost avoidance of more than $1M and this does not include any of the actual model revisions.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605152N / *Studies & Analysis Supt - Navy*	Project (Number/Name) 3310 / *Naval Aviation Developmental Planning*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3310: *Naval Aviation Developmental Planning*	-	3.749	4.082	2.258	-	2.258	2.997	3.404	3.405	3.477	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Funding supports Naval aviation pre-Milestone B developmental activities to include the conduct and integration of systems engineering activities. This project unit provides information, automated tools, and decision aids necessary to perform acquisition planning in support of warfighter capability requirements. This project unit also supports research, development, and analysis efforts to include various studies, joint requirements analysis, and cost analysis requirements in support of systems engineering activities, analyses of alternatives, and development of the 30-Year Aviation Plan a Congressionally mandated product. Due to high turnover and end of service life of several Naval aircraft set against increasing threat capabilities, DOD 5000 series mandates documentation of capability requirements and mechanisms to obtain these capabilities. This project unit allows Naval aviation the means to properly identify capability gaps and potential solutions required to maintain maximum warfighting capability realizing (or achieving) reductions to technical risks and overall program costs.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Naval Aviation Developmental Planning	3.749	4.082	2.258
Articles:	-	-	-

FY 2013 Accomplishments:

Conducted various studies for F/A-18, carrier onboard delivery recapitalization, Jet Trainer replacement, Aggressor Squadron follow-on, and MH-53 replacement.

FY 2014 Plans:

Conduct various studies for F/A-18, P-8A, MH-60R, and MH-60S with integrated logistics and manpower requirements. Meet emergent engineering requirements to defend platforms within the N98 portfolio. Update decision support toolset to include data repositories, manpower, and computer programs.

FY 2015 Plans:

Conduct various studies for training aircraft, FA-18E/F/G, MH-60R, and MH-60S with integrated engineering, logistics, and manpower requirements. Meet emergent engineering requirements documentation within the N98 portfolio. Update decision support toolset to facilitate internal N98 and program office total life-cycle trades, and reduce long-term costs of data repositories, manpower, and computer programs. Fund analysis modeling environment required for multiple anticipated analyses of alternatives on fighter, adversary, and rotary-wing aircraft to reduce total cost of all studies through FY17. Analyses are required

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605152N / *Studies & Analysis Supt - Navy*	**Project (Number/Name)** 3310 / *Naval Aviation Developmental Planning*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
to meet pre-Milestone B, DOD 5000 series mandated activities, as well as timelines mandated by the Congressional requirements for an Aviation Investment Plan.			
Accomplishments/Planned Programs Subtotals	3.749	4.082	2.258

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Produce and deliver 30-Year Aviation Plan (Congressionally mandated product). Studies performed will be used to identify known warfighter capability gaps and support acquisition planning requirements associated with potential solutions. Studies provide coherent and integrated cost and capability data to support long-term planning for Naval Aviation consistent with DOD 5000 series instructions.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605152N / *Studies & Analysis Supt - Navy*	Project (Number/Name) 3339 / *Carrier Onboard Deliver Recapitalization*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3339: *Carrier Onboard Deliver Recapitalization*	-	3.172	-	-	-	-	-	-	-	-	-	3.172
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Funding supports the analytic, risk reduction, and programmatic activities to recapitalize the Carrier Onboard Delivery (COD) capability. This medium-lift/long-range logistics aircraft will provide critical air connector capability for time-critical logistics within the Navy Seabasing logistics enabling concept in support of the Carrier Strike Groups. This capability is currently provided by the C-2A Greyhounds, which are projected to begin retiring in large numbers as they reach their fatigue service life limits and the force falls below primary aircraft allocation in 2028.

This effort is funded under Project Element 0605525N Carrier Onboard Delivery Follow On in FY 2014.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Carrier Onboard Delivery Recapitalization	3.172	-	-
Articles:	-	-	-
FY 2013 Accomplishments: Performed material solution analysis, risk reduction, and programmatic activities to recapitalize the carrier onboard delivery capability.			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	3.172	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605152N / *Studies & Analysis Supt - Navy*	**Project (Number/Name)** 3339 / *Carrier Onboard Deliver Recapitalization*

E. Performance Metrics

Perform programattic activities required to recapitalize the manned, Carrier Vessel Nuclear capable medium-lift/long-range logistics COD aircraft. Develop the statutory and regulatory program documentation and schedules required to enter Milestone B in FY16. Produce and deliver analytic support to develop requirements in preparation of the Capability Development Document. Perform risk reduction activities.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605152N / *Studies & Analysis Supt - Navy*	Project (Number/Name) 3365 / *FA-XX (Next Generation Fighter)*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3365: *FA-XX (Next Generation Fighter)*	-	-	-	4.794	-	4.794	1.683	-	-	-	-	6.477
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

Note

New Start in FY15

A. Mission Description and Budget Item Justification

This project supports the analysis of the advanced air dominance family of systems to replace capabilities lost with the end of service life of the F/A-18E/F and EA-18G.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Next Generation Air Dominance Analysis	-	-	4.794
Articles:	-	-	-
FY 2013 Accomplishments: N/A			
FY 2014 Plans: N/A			
FY 2015 Plans: Establish the analytic environment to support the recapitalization of Naval Aviation capabilities to include those inherent in the F/A-18E/F/G, Adversary aircraft, MH-60R/S, and training aircraft that will be approaching end of service life within the timeframes to meet pre-Milestone B, DOD 5000 series mandated activities, as well as timelines mandated by the Congressional requirements for an Aviation Investment Plan. The environment includes the analysis and support for planning and development of documentation to support a Materiel Development Decision, Analysis of Alternatives planning and execution, and Advanced Development Program Office planning. The products include automated tools and decision aids necessary to perform acquisition planning in support of warfighter capability requirements.			
Accomplishments/Planned Programs Subtotals	-	-	4.794

C. Other Program Funding Summary ($ in Millions)

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605152N / *Studies & Analysis Supt - Navy*	**Project (Number/Name)** 3365 / *FA-XX (Next Generation Fighter)*

C. Other Program Funding Summary ($ in Millions)

Remarks

D. Acquisition Strategy

Not applicable.

E. Performance Metrics

Produce and deliver FA-XX (Next Generation Air Dominance) Analysis of Alternatives and Initial Capabilities Document development in accordance with Office of the Secretary of Defense Cost Assessment and Program Evaluation guidance. Analysis performed will be used to identify known warfighter capability gaps and support acquisition planning requirements associated with potential solutions. Analysis provides coherent and integrated cost, risk, and effectiveness data to support long-term planning for Naval Aviation consistent with DOD 5000 series instructions.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*					R-1 Program Element (Number/Name) PE 0605154N *I Center For Naval Analyses*							
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
Total Program Element	0.000	41.573	46.655	45.752	-	45.752	45.990	47.215	48.272	49.367	Continuing	Continuing
0031: *MCOAG*	0.000	5.495	6.304	5.836	-	5.836	5.969	6.148	6.295	6.444	Continuing	Continuing
0148: *Center For Naval Analyses (CNA)*	0.000	36.078	40.351	39.916	-	39.916	40.021	41.067	41.977	42.923	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Center for Naval Analyses (CNA) is the Department of the Navy's (DoN) only Federally Funded Research and Development Center (FFRDC). CNA provides independent, objective, and expert analyses based on its unique access to sensitive data and hands-on exposure to fleet operations gained through its world-wide field program. CNA's research program is centrally funded by this program element and is primarily concentrated along one Marine Corps category and thirteen Navy categories of study called product areas. These product areas are structured to enhance CNA's focus of research and analysis upon the major present and future needs and issues of the Navy and the Marine Corps. Because of rapid advances in technology, changes in the fleet, the increasing complexity of weapon systems, and reductions in manpower, force structure, budgets, the current security environment, and Department of Defense (DoD) transformation, the Navy and Marine Corps have a greater need for analyses that are sophisticated, relevant, and timely. CNA conducts research and analysis at all security classification levels, to include Sensitive Compartmented Information (SCI) and Special Access Programs (SAP). CNA is highly qualified to meet that need.

B. Program Change Summary ($ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	46.856	48.345	48.816	-	48.816
Current President's Budget	41.573	46.655	45.752	-	45.752
Total Adjustments	-5.283	-1.690	-3.064	-	-3.064
• Congressional General Reductions	-	-1.690			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.087	-			
• SBIR/STTR Transfer	-1.458	-			
• Program Adjustments	-	-	-0.261	-	-0.261
• Rate/Misc Adjustments	-0.001	-	-2.803	-	-2.803
• Congressional General Reductions Adjustments	-3.911	-	-	-	-

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy	Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0605154N *I Center For Naval Analyses*

Change Summary Explanation

Technical: N/A

Schedule: N/A

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605154N / *Center For Naval Analyses*				Project (Number/Name) 0031 / *MCOAG*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
0031: *MCOAG*	-	5.495	6.304	5.836	-	5.836	5.969	6.148	6.295	6.444	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project supports the Marine Corps portion of the Department of Navy, CNA, Center for Naval Analysis Research Program, and is managed as an element of the Marine Corps Studies System. This program provides the Marine Corps with independent and objective research and analysis of specific issues/topics appropriately performed by a Federally Funded Research and Development Center (FFRDC). Marine Corps Division analysts work at CNA headquarters and, through CNA's Field representative Program serve at commands worldwide, including: Marine Forces Command, Marine Forces Pacific, Marine Special Operations Command, the three Marine Expeditionary Forces, Marine Aviation Weapons and Tactics Squadron One (MAWTS-1), and in Iraq, providing on-site analysis to deployed Marine forces there. CNA also assigns analysts to support the Deputy Commandants and their staffs as well as other Marine Corps organizations such as the Marine Corps Warfighting Lab, Marine Corps Systems Command, and the Commander, Marine Forces Reserve. The program areas are linked to the Marine Corps Advocacy (prepotency), which are: (1) Logistics and Infrastructure; (2) Manpower and Training; (3) Research, Development and Acquisition; (4) Operations and Plans; (5) Programs and Resources; (6) Aviation; (7) Combat Development and Integration; and (8) Intelligence, Surveillance and Reconnaissance. Scientific Analyst support provides six scientific analysts for the following six focus areas: Deputy Commandant (DC), Plans, Policies and Operations; DC Aviation; DC Installation and Logistics; DC Programs and Resources; DC Manpower Reserve Affairs; and Director, Manpower Plans (MP) - Manpower and Reserve Affairs (M&RA). The program continues analytical support for field exercises, Ad Hoc and Quick Response study requirements.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: MARINE CORPS OPERATIONS AND ANALYSIS GROUP	5.495	6.304	5.836
Articles:	-	-	-
FY 2013 Accomplishments: CNA studies provided full time analytical and scientific support that proved invaluable in translating challenging ill-defined problems into manageable terms and providing solutions. Efforts supported in FY13 included weapons and systems programs, Marine Air-Ground Task Force (MAGTF) training and exercise assessments, amphibious shipping capabilities, and reductions to naval operations and strategic commitments. Analyses and solutions relating to support and sustainment in terms of equipment readiness, training, responsiveness and maintaining squadron readiness, development of facilities sustainment and service life programs save the Marine Corps valuable time and resources. Manpower, force structure, aviation recruiting and retention, and valuations of recruiting, retaining and retiring Marines analyses provide viable personnel solutions in times of shrinking resources. Intelligence capabilities assessments, analyses of threat assessments from known and unknown enemies, i.e. Al-Qaeda, Northern Africa and Iran, and Joint Irregular Warfare Analytic Baseline (JIWAB) development provide valuable information to assist Marine Corps Intelligence organizations in keeping the force educated and safe.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605154N / *Center For Naval Analyses*	**Project (Number/Name)** 0031 / *MCOAG*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Continued - CNA Initiated - The Marine Corps made available 3% of the annual Center for Naval Analyses (CNA) budgetary funding line (PE 0605154N) to cover the cost of projects initiated by CNA in order to maintain its competency and objectivity. The annual amount allocated to CNA Initiated is subject to adjustment of the PE, and shall not exceed 3% of the PE amount available on 1 April of each year. - Continued - Project Development - Efforts expended after a sponsor requested CNA to prepare a proposal for a specific task and continued until such time as the task wasapproved by the Contracting Officer's Technical Representative (COTR) or the effort is terminated, either through rejection of the project proposal or at the direction of the sponsor. - Continued - General Concept Development - Efforts by CNA analysts and managers that defined a problem, researched the feasibility of projects, and determined necessary resources for execution of CNA's mission. General concept development can be further defined into two subdivisions, efforts related to CNA's mission in general and those efforts being made towards initiation of a specific task. - Continued - Scientific Analyst Program - CNA scientific analysts are assigned to senior USMC leaders in the Washington, DC area and (1) conducted short-term analyses in response to requests from the senior leader; (2) alerted the leader's staff to relevant analytical work CNA may be doing and provided information on current activities and problems involving the leader's area of responsibility to CNA; and (3) assisted in the definition of analytical problems so that they can be properly addressed in specific study efforts. - Continued - Quick Response Program - Quick response projects are defined as efforts that have a need for an immediate start and that are of 90 days or less in duration. The specific study effort must fall within the scope and focus of the previously defined product areas. - Continued - Field Program - CNA provided on-scene, analytical support to operational commanders. CNA field representatives assigned to deploying carrier battle groups: Test, evaluation, and experimentation commands, aviation-focused commands, training commands, amphibious groups, the numbered fleets, and the component commands. The field representatives' expertise was primarily used to evaluate operational capabilities, determine the optimal use of resources, analyze exercises, operations, and experiments, and assisted in the development of current operations (CONOPs) and tactics. - Continued - Field Exercise Support - The Exercise Program consisted of carefully selected CNA analysts assigned to support various Navy, Marine Corps, and Joint Commanders as they conduct at-sea exercises essential to naval readiness. Specific aspects of exercise support analysis included CNA support during overall fleet exercise activities, detailed data gathering and observations during exercises, and CNA analysis of both synthetic and live training exercises. ***FY 2014 Plans:*** - Continue all efforts of FY13. - Initiate high priority study and analysis projects approved in FY14 Marine Corps Studies System Master Plan (MCSSMP). OCO:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605154N / *Center For Naval Analyses*	**Project (Number/Name)** 0031 / *MCOAG*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
No OCO requirement. ***FY 2015 Plans:*** - Continue all efforts of FY14 - Initiate high priority study and analysis projects approved in FY15 MCSSMP.			
Accomplishments/Planned Programs Subtotals	5.495	6.304	5.836

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

This project supports the Marine Corps portion of the Department of Navy, CNA Center for Naval Analysis Research Program, and is managed as an element of the Marine Corps Studies System. This program provides the Marine Corps with independent and objective research and analysis of specific issues/topics appropriately performed by a Federally Funded Research and Development Center (FFRDC). Marine Corps Division analysts work at CNA headquarters and, through CNA's Field representative Program serve at commands worldwide, including: Marine Forces Command, Marine Forces Pacific, Marine Special Operations Command, the three Marine Expeditionary Forces, Marine Aviation Weapons and Tactics Squadron One (MAWTS-1), and in Iraq, providing on-site analysis to deployed Marine forces there. CNA also assigns analysts to support the Deputy Commandants and their staffs as well as other Marine Corps organizations such as the Marine Corps Warfighting Lab, Marine Corps Systems Command, and the Commander, Marine Forces Reserve. The program areas are linked to the Marine Corps Advocacy (prepotency), which are: (1) Logistics and Infrastructure; (2) Manpower and Training; (3) Research, Development and Acquisition; (4) Operations and Plans; (5) Programs and Resources; (6) Aviation; (7) Combat Development and Integration; and (8) Intelligence, Surveillance and Reconnaissance. Scientific Analyst support provides six scientific analysts for the following six focus areas: Deputy Commandant (DC), Plans, Policies and Operations; DC Aviation; DC Installation and Logistics; DC Programs and Resources; DC Manpower Reserve Affairs; and Director, Manpower Plans (MP) - Manpower and Reserve Affairs (M&RA).

The Marine Corps' portion of the CNA program is executed via the Marine Corps Studies System (MCSS) Annual Plan which is reviewed and updated on a quarterly basis. The MCSS maintains a comprehensive listing of all CNA studies performed for the Marine Corps. The MCSS ensures there are no duplicate analytical efforts within the Marine Corps. Additionally, the Operations Analysis Division of Combat Integration Division (CD&I, MCCDC) provides analytical review of all CNA products for the Marine Corps and integrates the results and recommendations into a quarterly newsletter for research and analysis. Other evaluation processes are as follows: A) Contract Status Meetings: The Marine Corps participates in contract status meetings. The Contracting Officer chairs monthly meetings with the Marine Corps, and members of the CNA Business Support Group to provide guidance regarding contract management to include reviewing the Defense Technical Information Center (DTIC) database requirements to emphasize the contractual requirement that all ongoing research be submitted to DTIC to ensure against duplication to reviewing CNA's cost effectiveness and efficiency.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605154N / *Center For Naval Analyses*	**Project (Number/Name)** 0031 / *MCOAG*

B) Marine Corps Three-Star Flag Officer Review: The Commanding General, CD&I, MCCDC and the Director, Operations Analysis Division (OAD) frequently to review the current research program and provide guidance to CNA regarding future research requirements. Meetings are essential to provide CNA to ensure that research conducted is of the greatest value to the Marine Corps. The meetings serve as a roadmap for future projects. The Marine Corps' research plan is consolidated with the DoN's Annual Plan that is submitted to the Deputy Chief of Naval Operations for Integration of Capabilities and Resources (N8) for final review and acceptance.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605154N / *Center For Naval Analyses*	Project (Number/Name) 0148 / *Center For Naval Analyses (CNA)*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0148: *Center For Naval Analyses (CNA)*	-	36.078	40.351	39.916	-	39.916	40.021	41.067	41.977	42.923	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This program supports the Navy's portion of the CNA Research Program, which is primarily concentrated along eleven Navy categories of study called product areas. These product areas include the following: (1) Manpower/Personnel, Medical and Training; (2) Intelligence, Information and Networks; (3) Plans, Policy, and Operations; (4) Infrastructure and Readiness; (5) Resources, Programs, and Assessments; (6) Capability Integration; (7) Research, Development and Acquisition; (8) Navy Field Program; (9) Scientific Analyst Program; (10) Navy Quick Response Projects; and (11) CNA Initiated Projects. This program provides the Navy with independent and objective research and analysis of specific issues/topics appropriately performed by a FFRDC and includes studies support (to include quick response studies support), field support to fleet commanders, scientific analyst support to Deputy Chiefs of Naval Operations (DCNOs) and their staffs, exercise support, and ad hoc support. CNA's analyses have resulted in substantial improvements in force structure, fleet effectiveness, and significant cost avoidance

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: CENTER FOR NAVAL ANALYSES, NAVY	36.078	40.351	39.916
Articles:	-	-	-

Description: Funding in this project supports integrated research for the Department of Navy (DoN) and other DoD components across a broad range of issues including the development and evaluation of tactics, operations testing of new systems, assessment of current capabilities, logistics and readiness, work-force management, space and space-related activities, cyber operations, cost and operational program analysis, assessment of advanced technology, force planning, and strategies implications of political-military developments.

FY 2013 Accomplishments:

- Continued to provide the Navy with objective, high quality research and analysis approved in FY13 Navy Annual Plan during the reporting period. Issues of major importance to Navy leadership are addressed during the Annual Plan process which is reviewed annually to ensure CNA's research is addressing the Navy's most critical topics. CNA's field program provides full-time, on-site analysts to Navy commands around the world, while the scientific analyst program provides analysts to support OPNAV departments and staffs.

FY 2014 Plans:

- Continue all efforts of FY13.

FY 2015 Plans:

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605154N / *Center For Naval Analyses*	**Project (Number/Name)** 0148 / *Center For Naval Analyses (CNA)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Continue all efforts of FY14.			
Accomplishments/Planned Programs Subtotals	36.078	40.351	39.916

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

CNA is reviewed throughout the research year on several different levels to ensure that research produced is not duplicated elsewhere. The primary (and most effective) method of review for duplication is the Contracting Officer's Technical Representative (COTR) review and approval of each and every project proposal submitted by CNA. This method is highly effective in providing the necessary oversight to ensure that duplication of effort does not occur. The Marine Corps Studies System (MCSS) maintains a comprehensive listing of all CNA studies performed for the USMC. The MCSS ensures that there are no duplicate analytical efforts within the USMC. Additionally, the Studies and Analysis Division of the Marine Corps Combat Development Command (MCCDC) provides analytical review of all CNA products for the USMC and integrates the results and recommendations into a quarterly newsletter and an annual plan for research and analysis. Other evaluation processes:
A) DoN Contract Status Meetings: As part of the CNA oversight process, the Office of Naval Research Contracting Officer chairs a monthly meeting with the COTR, the USMC, and the CNA's Chief Financial Office to provide guidance regarding contract management.
B) Two-Star Flag Officers and VCNO Corporate Board Meetings: DoN Two-Star and their equivalent civilian counterparts meet several times a year to review the current fiscal year's research and provide guidance to CNA regarding their future research for DoN. These high level meetings are essential to provide CNA with DoN's guidance to ensure that the research conducted is of the greatest value to DoN. The meetings also serve as the catalyst for the formation of the CNA Annual Plan, CNA's roadmap for research during the upcoming fiscal year. The CNA Annual Plan is then submitted to VCNO/N8 for final review and acceptance.
C) CNA Comprehensive Review: Prior to contract renewal, CNA, as an FFRDC, must be evaluated to ensure that the DoN wants to renew CNA's contract for an additional five year period. DoN completes an exhaustive review of sponsors' technical needs and mission requirements; DoN's consideration of other sources; CNA's efficiency and effectiveness; CNA's management and cost effectiveness; as well as the FFRDC establishment criteria and sponsorship agreement. The CNA Comprehensive Review is approved by ASN (RDA) and accepted by OSD (AT&L).

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*					R-1 Program Element (Number/Name) PE 0605502N *I Small Business Innovative Research*							
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
Total Program Element	0.000	289.841	-	-	-	-	-	-	-	-	-	289.841
0000: *UNDIST*	0.000	2.556	-	-	-	-	-	-	-	-	-	2.556
1812: *NAVAIR SBIR Program*	0.000	80.844	-	-	-	-	-	-	-	-	-	80.844
1813: *SPAWAR SBIR Program*	0.000	13.486	-	-	-	-	-	-	-	-	-	13.486
1814: *NAVSEA SBIR Program*	0.000	52.449	-	-	-	-	-	-	-	-	-	52.449
1824: *CMC SBIR Program*	0.000	12.009	-	-	-	-	-	-	-	-	-	12.009
1862: *SSPO SBIR Program*	0.000	4.801	-	-	-	-	-	-	-	-	-	4.801
1863: *NAVSUP SBIR Program*	0.000	1.000	-	-	-	-	-	-	-	-	-	1.000
1864: *CNR SBIR Program*	0.000	59.341	-	-	-	-	-	-	-	-	-	59.341
1865: *SBIR Administration*	0.000	3.789	-	-	-	-	-	-	-	-	-	3.789
2016: *NAVFAC SBIR Program*	0.000	1.153	-	-	-	-	-	-	-	-	-	1.153
2204: *Small Business Tech Transfer Program*	0.000	17.628	-	-	-	-	-	-	-	-	-	17.628
2240: *Navy Dual Use Technology Program*	0.000	0.839	-	-	-	-	-	-	-	-	-	0.839
2241: *SBIR ADMIN - SPAWAR*	0.000	0.822	-	-	-	-	-	-	-	-	-	0.822
2242: *SBIR ADMIN - NAVSEA*	0.000	4.120	-	-	-	-	-	-	-	-	-	4.120
2243: *SBIR ADMIN - NAVAIR*	0.000	5.046	-	-	-	-	-	-	-	-	-	5.046
2244: *SBIR ADMIN - NAVFAC*	0.000	0.072	-	-	-	-	-	-	-	-	-	0.072
2245: *SBIR ADMIN - NAVSUP*	0.000	0.050	-	-	-	-	-	-	-	-	-	0.050
2248: *SBIR ADMIN - SSPO*	0.000	0.264	-	-	-	-	-	-	-	-	-	0.264
2813: *SBIR - NSMA*	0.000	6.320	-	-	-	-	-	-	-	-	-	6.320
2814: *SBIR ADMIN - NSMA*	0.000	0.474	-	-	-	-	-	-	-	-	-	0.474
3201: *SBIR CPP - NAVAIR*	0.000	0.883	-	-	-	-	-	-	-	-	-	0.883
3202: *SBIR CPP - SPAWAR*	0.000	0.147	-	-	-	-	-	-	-	-	-	0.147
3203: *SBIR CPP - NAVSEA*	0.000	0.549	-	-	-	-	-	-	-	-	-	0.549

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*					R-1 Program Element (Number/Name) PE 0605502N *I Small Business Innovative Research*							
3204: *SBIR CPP - MARINE CORPS*	0.000	0.147	-	-	-	-	-	-	-	-	-	0.147
3205: *SBIR CPP - ONR*	0.000	0.692	-	-	-	-	-	-	-	-	-	0.692
3213: *NAVAIR STTR Program*	0.000	12.443	-	-	-	-	-	-	-	-	-	12.443
3233: *SPAWAR STTR Program*	0.000	1.241	-	-	-	-	-	-	-	-	-	1.241
3344: *SBIR Trial Admin Program*	0.000	6.676	-	-	-	-	-	-	-	-	-	6.676

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Small Business Research and Development Reauthorization Act of 2011 as amended (15 U.S.C. 638) requires each Federal agency that has an extramural budget for R/R&D in excess of $100,000,000 must participate and shall expend with small business concerns (SBC) not less than 2.6% in FY 2012 for specific small business research initiatives awarded through a Small Business Innovation Research (SBIR) solicitation. For FY 2013 through FY 2016 this increases annually by 0.1% and in FY 2017 increases by 0.2%. The Small Business Technology Transfer (STTR) program requires each Federal agency that has an extramural budget for R&D in excess of $1,000,000,000 to set aside 0.35% for STTR in FY 2012., and increases 0.05% every two years beginning in FY 2012 through FY 2016.

B. Program Change Summary ($ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	-	-	-	-	-
Current President's Budget	289.841	-	-	-	-
Total Adjustments	289.841	-	-	-	-
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	289.842	-			
• Rate/Misc Adjustments	-0.001	-	-	-	-

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*	Project (Number/Name) 0000 / *UNDIST*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0000: *UNDIST*	-	2.556	-	-	-	-	-	-	-	-	-	2.556
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Small Business Innovation Research (SBIR) program requires each Federal agency that has an extramural budget for R&D in excess of $100,000,000 to set aside 2.7% for SBIR in FY 2013. This funds R&D at small businesses. The program goals are to stimulate technological innovation; increase small business participation in federally funded R&D; foster participation by minority and disadvantaged firms in technological innovation; and increase private sector commercialization of federal R&D.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	2.556	-	-
Articles:	-	-	-

FY 2013 Accomplishments:

SBIR:
Phase 1 and Phase II's awarded based on solicitations issued three times a year for SBIR describing R&D needs and inviting proposals from small companies.

Phase I Feasibility:
Phase I awards determined the scientific and technical merit and feasibility of the proposed effort and quality of performance by the small business concerns (SBC).

Phase II Technology Development:
Phase II awards are based on the SBC's Phase I results and potential of the Phase II proposal to address the Navy's needs. These awards further developed the technology, maturing the Technology Readiness Level(TRL) and providing prototypes or other sources validating the technology.

Phase III - Since the DOD started tracking DOD Phase III contract awards in 2000, the Navy continues annually to award more in Phase III contracts then the rest of the DOD combined and continues to be called out in studies and Congressional language as the premier Department of Defense (DoD) SBIR program. Although no government SBIR funds are involved, phase III funding can come from the government and/or private sector. The target is to transition a company's SBIR effort into products, tools or services that benefit the Navy acquisition community.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605502N / *Small Business Innovative Research*	**Project (Number/Name)** 0000 / *UNDIST*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
One important strength of the SBIR program is that once a company has received a Phase I award the follow-on Phase II and III awards can be awarded in a non competitive process since the competitive process took place under phase I. ***FY 2014 Plans:*** N/A ***FY 2015 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	2.556	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*	Project (Number/Name) 1812 / *NAVAIR SBIR Program*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
1812: *NAVAIR SBIR Program*	-	80.844	-	-	-	-	-	-	-	-	-	80.844
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Small Business Innovation Research (SBIR) program requires each Federal agency that has an extramural budget for R&D in excess of $100,000,000 to set aside 2.7% for SBIR in FY 2013. This funds R&D at small businesses. The program goals are to stimulate technological innovation; increase small business participation in federally funded R&D; foster participation by minority and disadvantaged firms in technological innovation; and increase private sector commercialization of federal R&D.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Phase I Feasibility	9.250	-	-
Articles:	-	-	-
FY 2013 Accomplishments: Phase I Feasibility Phase I awards determined the scientific and technical merit and feasibility of the proposed effort and quality of performance by the small business concerns (SBC).			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Title: Phase II Technology Development	71.594	-	-
Articles:	-	-	-
FY 2013 Accomplishments: Phase II Technology Development: Phase II awards are based on the SBC's Phase I results and potential of the Phase II proposal to address the Navy's needs. These awards further developed the technology, maturing the Technology Readiness Level and providing prototypes or other sources validating the technology.			
FY 2014 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605502N / *Small Business Innovative Research*	**Project (Number/Name)** 1812 / *NAVAIR SBIR Program*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
N/A ***FY 2015 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	80.844	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*	Project (Number/Name) 1813 / *SPAWAR SBIR Program*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
1813: *SPAWAR SBIR Program*	-	13.486	-	-	-	-	-	-	-	-	-	13.486
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Small Business Innovation Research (SBIR) program requires each Federal agency that has an extramural budget for R&D in excess of $100,000,000 to set aside 2.7% for SBIR in FY 2013. This funds R&D at small businesses. The program goals are to stimulate technological innovation; increase small business participation in federally funded R&D; foster participation by minority and disadvantaged firms in technological innovation; and increase private sector commercialization of federal R&D.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: SPAWAR SBIR Program	13.486	-	-
Articles:	-	-	-

FY 2013 Accomplishments:

SBIR:
Phase 1 and Phase II's awarded based on solicitations issued three times a year for SBIR describing R&D needs and inviting proposals from small companies.

Phase I Feasibility:
Phase I awards determined the scientific and technical merit and feasibility of the proposed effort and quality of performance by the small business concerns (SBC).

Phase II Technology Development:
Phase II awards are based on the SBC's Phase I results and potential of the Phase II proposal to address the Navy's needs. These awards further developed the technology, maturing the Technology Readiness Level(TRL) and providing prototypes or other sources validating the technology.

Phase III - Since the DOD started tracking DOD Phase III contract awards in 2000, the Navy continues annually to award more in Phase III contracts then the rest of the DOD combined and continues to be called out in studies and Congressional language as the premier Department of Defense (DoD) SBIR program. Although no government SBIR funds are involved, phase III funding can come from the government and/or private sector. The target is to transition a company's SBIR effort into products, tools or services that benefit the Navy acquisition community.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605502N / *Small Business Innovative Research*	**Project (Number/Name)** 1813 / *SPAWAR SBIR Program*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
One important strength of the SBIR program is that once a company has received a Phase I award the follow-on Phase II and III awards can be awarded in a non competitive process since the competitive process took place under phase I. ***FY 2014 Plans:*** N/A ***FY 2015 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	13.486	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*				Project (Number/Name) 1814 / *NAVSEA SBIR Program*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
1814: *NAVSEA SBIR Program*	-	52.449	-	-	-	-	-	-	-	-	-	52.449
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Small Business Innovation Research (SBIR) program requires each Federal agency that has an extramural budget for R&D in excess of $100,000,000 to set aside 2.7% for SBIR in FY 2013. This funds R&D at small businesses. The program goals are to stimulate technological innovation; increase small business participation in federally funded R&D; foster participation by minority and disadvantaged firms in technological innovation; and increase private sector commercialization of federal R&D.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	52.449	-	-
Articles:	-	-	-

FY 2013 Accomplishments:

SBIR:
Phase 1 and Phase II's awarded based on solicitations issued three times a year for SBIR describing R&D needs and inviting proposals from small companies.

Phase I Feasibility:
Phase I awards determined the scientific and technical merit and feasibility of the proposed effort and quality of performance by the small business concerns (SBC).

Phase II Technology Development:
Phase II awards are based on the SBC's Phase I results and potential of the Phase II proposal to address the Navy's needs. These awards further developed the technology, maturing the Technology Readiness Level(TRL) and providing prototypes or other sources validating the technology.

Phase III - Since the DOD started tracking DOD Phase III contract awards in 2000, the Navy continues annually to award more in Phase III contracts then the rest of the DOD combined and continues to be called out in studies and Congressional language as the premier Department of Defense (DoD) SBIR program. Although no government SBIR funds are involved, phase III funding can come from the government and/or private sector. The target is to transition a company's SBIR effort into products, tools or services that benefit the Navy acquisition community.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605502N / *Small Business Innovative Research*	**Project (Number/Name)** 1814 / *NAVSEA SBIR Program*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
One important strength of the SBIR program is that once a company has received a Phase I award the follow-on Phase II and III awards can be awarded in a non competitive process since the competitive process took place under phase I. ***FY 2014 Plans:*** N/A ***FY 2015 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	52.449	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*	Project (Number/Name) 1824 / *CMC SBIR Program*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
1824: *CMC SBIR Program*	-	12.009	-	-	-	-	-	-	-	-	-	12.009
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Small Business Innovation Research (SBIR) program requires each Federal agency that has an extramural budget for R&D in excess of $100,000,000 to set aside 2.7% for SBIR in FY 2013. This funds R&D at small businesses. The program goals are to stimulate technological innovation; increase small business participation in federally funded R&D; foster participation by minority and disadvantaged firms in technological innovation; and increase private sector commercialization of federal R&D.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	12.009	-	-
Articles:	-	-	-

FY 2013 Accomplishments:

SBIR:
Phase 1 and Phase II's awarded based on solicitations issued three times a year for SBIR describing R&D needs and inviting proposals from small companies.

Phase I Feasibility:
Phase I awards determined the scientific and technical merit and feasibility of the proposed effort and quality of performance by the small business concerns (SBC).

Phase II Technology Development:
Phase II awards are based on the SBC's Phase I results and potential of the Phase II proposal to address the Navy's needs. These awards further developed the technology, maturing the Technology Readiness Level(TRL) and providing prototypes or other sources validating the technology.

Phase III - Since the DOD started tracking DOD Phase III contract awards in 2000, the Navy continues annually to award more in Phase III contracts then the rest of the DOD combined and continues to be called out in studies and Congressional language as the premier Department of Defense (DoD) SBIR program. Although no government SBIR funds are involved, phase III funding can come from the government and/or private sector. The target is to transition a company's SBIR effort into products, tools or services that benefit the Navy acquisition community.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605502N / *Small Business Innovative Research*	**Project (Number/Name)** 1824 / *CMC SBIR Program*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
One important strength of the SBIR program is that once a company has received a Phase I award the follow-on Phase II and III awards can be awarded in a non competitive process since the competitive process took place under phase I. ***FY 2014 Plans:*** N/A ***FY 2015 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	12.009	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*	Project (Number/Name) 1862 / *SSPO SBIR Program*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
1862: *SSPO SBIR Program*	-	4.801	-	-	-	-	-	-	-	-	-	4.801
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Small Business Innovation Research (SBIR) program requires each Federal agency that has an extramural budget for R&D in excess of $100,000,000 to set aside 2.7% for SBIR in FY 2013. This funds R&D at small businesses. The program goals are to stimulate technological innovation; increase small business participation in federally funded R&D; foster participation by minority and disadvantaged firms in technological innovation; and increase private sector commercialization of federal R&D.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	4.801	-	-
Articles:	-	-	-

FY 2013 Accomplishments:

SBIR:
Phase 1 and Phase II's awarded based on solicitations issued three times a year for SBIR describing R&D needs and inviting proposals from small companies.

Phase I Feasibility:
Phase I awards determined the scientific and technical merit and feasibility of the proposed effort and quality of performance by the small business concerns (SBC).

Phase II Technology Development:
Phase II awards are based on the SBC's Phase I results and potential of the Phase II proposal to address the Navy's needs. These awards further developed the technology, maturing the Technology Readiness Level(TRL) and providing prototypes or other sources validating the technology.

Phase III - Since the DOD started tracking DOD Phase III contract awards in 2000, the Navy continues annually to award more in Phase III contracts then the rest of the DOD combined and continues to be called out in studies and Congressional language as the premier Department of Defense (DoD) SBIR program. Although no government SBIR funds are involved, phase III funding can come from the government and/or private sector. The target is to transition a company's SBIR effort into products, tools or services that benefit the Navy acquisition community.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605502N / *Small Business Innovative Research*	**Project (Number/Name)** 1862 / *SSPO SBIR Program*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
One important strength of the SBIR program is that once a company has received a Phase I award the follow-on Phase II and III awards can be awarded in a non competitive process since the competitive process took place under phase I. ***FY 2014 Plans:*** N/A ***FY 2015 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	4.801	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*	Project (Number/Name) 1863 / *NAVSUP SBIR Program*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
1863: *NAVSUP SBIR Program*	-	1.000	-	-	-	-	-	-	-	-	-	1.000
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Small Business Innovation Research (SBIR) program requires each Federal agency that has an extramural budget for R&D in excess of $100,000,000 to set aside 2.7% for SBIR in FY 2013. This funds R&D at small businesses. The program goals are to stimulate technological innovation; increase small business participation in federally funded R&D; foster participation by minority and disadvantaged firms in technological innovation; and increase private sector commercialization of federal R&D.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	1.000	-	-
Articles:	-	-	-

FY 2013 Accomplishments:

SBIR:
Phase I and Phase II's awarded based on solicitations issued three times a year for SBIR describing R&D needs and inviting proposals from
small companies.

Phase I Feasibility:
Phase I awards determined the scientific and technical merit and feasibility of the proposed effort and quality of performance by the small
business concerns (SBC).

Phase II Technology Development:
Phase II awards are based on the SBC's Phase I results and potential of the Phase II proposal to address the Navy's needs. These awards further developed the technology, maturing the Technology Readiness Level(TRL) and providing prototypes or other sources validating the technology.

Phase III - Since the DOD started tracking DOD Phase III contract awards in 2000, the Navy continues annually to award more in Phase III contracts then the rest of the DOD combined and continues to be called out in studies and Congressional language as the premier Department of Defense (DoD) SBIR program. Although no government SBIR funds are involved, phase III funding can come from the government and/or private sector. The target is to transition a company's SBIR effort into products, tools or

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605502N / *Small Business Innovative Research*	**Project (Number/Name)** 1863 / *NAVSUP SBIR Program*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
services that benefit the Navy acquisition community. One important strength of the SBIR program is that once a company has received a Phase I award the follow-on Phase II and III awards can be awarded in a non competitive process since the competitive process took place under phase I. ***FY 2014 Plans:*** N/A ***FY 2015 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	1.000	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*	Project (Number/Name) 1864 / *CNR SBIR Program*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
1864: *CNR SBIR Program*	-	59.341	-	-	-	-	-	-	-	-	-	59.341
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Small Business Innovation Research (SBIR) program requires each Federal agency that has an extramural budget for R&D in excess of $100,000,000 to set aside 2.7% for SBIR in FY 2013. This funds R&D at small businesses. The program goals are to stimulate technological innovation; increase small business participation in federally funded R&D; foster participation by minority and disadvantaged firms in technological innovation; and increase private sector commercialization of federal R&D.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	59.341	-	-
Articles:	-	-	-

FY 2013 Accomplishments:

SBIR:
Phase 1 and Phase II's awarded based on solicitations issued three times a year for SBIR describing R&D needs and inviting proposals from small companies.

Phase I Feasibility:
Phase I awards determined the scientific and technical merit and feasibility of the proposed effort and quality of performance by the small business concerns (SBC).

Phase II Technology Development:
Phase II awards are based on the SBC's Phase I results and potential of the Phase II proposal to address the Navy's needs. These awards further developed the technology, maturing the Technology Readiness Level(TRL) and providing prototypes or other sources validating the technology.

Phase III - Since the DOD started tracking DOD Phase III contract awards in 2000, the Navy continues annually to award more in Phase III contracts then the rest of the DOD combined and continues to be called out in studies and Congressional language as the premier Department of Defense (DoD) SBIR program. Although no government SBIR funds are involved, phase III funding can come from the government and/or private sector. The target is to transition a company's SBIR effort into products, tools or services that benefit the Navy acquisition community.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605502N / *Small Business Innovative Research*	**Project (Number/Name)** 1864 / *CNR SBIR Program*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
One important strength of the SBIR program is that once a company has received a Phase I award the follow-on Phase II and III awards can be awarded in a non competitive process since the competitive process took place under phase I. ***FY 2014 Plans:*** N/A ***FY 2015 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	59.341	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*				Project (Number/Name) 1865 / *SBIR Administration*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
1865: *SBIR Administration*	-	3.789	-	-	-	-	-	-	-	-	-	3.789
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

SBIR Administration. Manage the program, technical efforts and award contracts related to SBIR.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	3.789	-	-
Articles:	-	-	-
FY 2013 Accomplishments: SBIR Administration			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	3.789	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*				Project (Number/Name) 2016 / *NAVFAC SBIR Program*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
2016: *NAVFAC SBIR Program*	-	1.153	-	-	-	-	-	-	-	-	-	1.153
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Small Business Innovation Research (SBIR) program requires each Federal agency that has an extramural budget for R&D in excess of $100,000,000 to set aside 2.7% for SBIR in FY 2013. This funds R&D at small businesses. The program goals are to stimulate technological innovation; increase small business participation in federally funded R&D; foster participation by minority and disadvantaged firms in technological innovation; and increase private sector commercialization of federal R&D.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	1.153	-	-
Articles:	-	-	-

FY 2013 Accomplishments:

SBIR:
Phase 1 and Phase II's awarded based on solicitations issued three times a year for SBIR describing R&D needs and inviting proposals from small companies.

Phase I Feasibility:
Phase I awards determined the scientific and technical merit and feasibility of the proposed effort and quality of performance by the small business concerns (SBC).

Phase II Technology Development:
Phase II awards are based on the SBC's Phase I results and potential of the Phase II proposal to address the Navy's needs. These awards further developed the technology, maturing the Technology Readiness Level(TRL) and providing prototypes or other sources validating the technology.

Phase III - Since the DOD started tracking DOD Phase III contract awards in 2000, the Navy continues annually to award more in Phase III contracts then the rest of the DOD combined and continues to be called out in studies and Congressional language as the premier Department of Defense (DoD) SBIR program. Although no government SBIR funds are involved, phase III funding can come from the government and/or private sector. The target is to transition a company's SBIR effort into products, tools or services that benefit the Navy acquisition community.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605502N / *Small Business Innovative Research*	**Project (Number/Name)** 2016 / *NAVFAC SBIR Program*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
One important strength of the SBIR program is that once a company has received a Phase I award the follow-on Phase II and III awards can be awarded in a non competitive process since the competitive process took place under phase I. ***FY 2014 Plans:*** N/A ***FY 2015 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	1.153	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*				Project (Number/Name) 2204 / *Small Business Tech Transfer Program*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
2204: *Small Business Tech Transfer Program*	-	17.628	-	-	-	-	-	-	-	-	-	17.628
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Small Business Technology Transfer (STTR) program requires each Federal agency that has an extramural budget for R&D in excess of $1,000,000,000 to set aside 0.35% for STTR in FY 2012. This funds cooperative R&D between small businesses and research institutions. The program goals are to create vehicles from moving ideas from research institutions to market; enable researchers to pursue commercial application of technologies; and bridge funding gap between basic research and commercial product.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	17.628	-	-
Articles:	-	-	-

FY 2013 Accomplishments:

SBIR:
Phase 1 and Phase II's awarded based on solicitations issued three times a year for SBIR describing R&D needs and inviting proposals from small companies.

Phase I Feasibility:
Phase I awards determined the scientific and technical merit and feasibility of the proposed effort and quality of performance by the small business concerns (SBC).

Phase II Technology Development:
Phase II awards are based on the SBC's Phase I results and potential of the Phase II proposal to address the Navy's needs. These awards further developed the technology, maturing the Technology Readiness Level(TRL) and providing prototypes or other sources validating the technology.

Phase III - Since the DOD started tracking DOD Phase III contract awards in 2000, the Navy continues annually to award more in Phase III contracts then the rest of the DOD combined and continues to be called out in studies and Congressional language as the premier Department of Defense (DoD) SBIR program. Although no government SBIR funds are involved, phase III funding

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605502N / *Small Business Innovative Research*	**Project (Number/Name)** 2204 / *Small Business Tech Transfer Program*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
can come from the government and/or private sector. The target is to transition a company's SBIR effort into products, tools or services that benefit the Navy acquisition community. One important strength of the SBIR program is that once a company has received a Phase I award the follow-on Phase II and III awards can be awarded in a non competitive process since the competitive process took place under phase I. ***FY 2014 Plans:*** N/A ***FY 2015 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	17.628	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*				Project (Number/Name) 2240 / *Navy Dual Use Technology Program*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
2240: *Navy Dual Use Technology Program*	-	0.839	-	-	-	-	-	-	-	-	-	0.839
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

SBIR Administration. Manage the program, technical efforts and award contracts related to SBIR.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	0.839	-	-
Articles:	-	-	-
FY 2013 Accomplishments: SBIR Administration			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	0.839	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*				Project (Number/Name) 2241 / *SBIR ADMIN - SPAWAR*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
2241: *SBIR ADMIN - SPAWAR*	-	0.822	-	-	-	-	-	-	-	-	-	0.822
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Small Business Innovative Research (SBIR) Admin: Manage the program, technical efforts and award contracts related to SBIR.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: SBIR Administration	0.822	-	-
Articles:	-	-	-
FY 2013 Accomplishments: SBIR Administration Managed the program, technical efforts, and award contracts related to the first increment of SBIR ($70K in contract service fees; $150K for program management/technology manager support; and $80K for TPOC and COR support).			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	0.822	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*				Project (Number/Name) 2242 / *SBIR ADMIN - NAVSEA*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
2242: *SBIR ADMIN - NAVSEA*	-	4.120	-	-	-	-	-	-	-	-	-	4.120
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

SBIR Administration. Manage the program, technical efforts and award contracts related to SBIR.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	4.120	-	-
Articles:	-	-	-
FY 2013 Accomplishments: SBIR Administration			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	4.120	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*				Project (Number/Name) 2243 / *SBIR ADMIN - NAVAIR*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
2243: *SBIR ADMIN - NAVAIR*	-	5.046	-	-	-	-	-	-	-	-	-	5.046
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Small Business Innovative Research (SBIR) Administration. Manage the program, technical efforts and award contracts related to SBIR.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: SBIR Admin	5.046	-	-
Articles:	-	-	-
FY 2013 Accomplishments: SBIR Administration Manage the program, technical efforts and award contracts related to SBIR.			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	5.046	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*				Project (Number/Name) 2244 / *SBIR ADMIN - NAVFAC*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
2244: *SBIR ADMIN - NAVFAC*	-	0.072	-	-	-	-	-	-	-	-	-	0.072
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

SBIR Administration. Manage the program, technical efforts and award contracts related to SBIR.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	0.072	-	-
Articles:	-	-	-
FY 2013 Accomplishments: SBIR Administration			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	0.072	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*				Project (Number/Name) 2245 / *SBIR ADMIN - NAVSUP*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
2245: *SBIR ADMIN - NAVSUP*	-	0.050	-	-	-	-	-	-	-	-	-	0.050
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

SBIR Administration. Manage the program, technical efforts and award contracts related to SBIR.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	0.050	-	-
Articles:	-	-	-
FY 2013 Accomplishments: SBIR Administration			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	0.050	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*				Project (Number/Name) 2248 / *SBIR ADMIN - SSPO*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
2248: *SBIR ADMIN - SSPO*	-	0.264	-	-	-	-	-	-	-	-	-	0.264
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

SBIR Administration

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	0.264	-	-
Articles:	-	-	-
FY 2013 Accomplishments: SBIR Administration			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	0.264	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*	Project (Number/Name) 2813 / *SBIR - NSMA*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2813: *SBIR - NSMA*	-	6.320	-	-	-	-	-	-	-	-	-	6.320
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Small Business Innovation Research (SBIR) program requires each Federal agency that has an extramural budget for R&D in excess of $100,000,000 to set aside 2.7% for SBIR in FY 2013. This funds R&D at small businesses. The program goals are to stimulate technological innovation; increase small business participation in federally funded R&D; foster participation by minority and disadvantaged firms in technological innovation; and increase private sector commercialization of federal R&D.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	6.320	-	-
Articles:	-	-	-

FY 2013 Accomplishments:

SBIR:
Phase 1 and Phase II's awarded based on solicitations issued three times a year for SBIR describing R&D needs and inviting proposals from small companies.

Phase I Feasibility:
Phase I awards determined the scientific and technical merit and feasibility of the proposed effort and quality of performance by the small business concerns (SBC).

Phase II Technology Development:
Phase II awards are based on the SBC's Phase I results and potential of the Phase II proposal to address the Navy's needs. These awards further developed the technology, maturing the Technology Readiness Level(TRL) and providing prototypes or other sources validating the technology.

Phase III - Since the DOD started tracking DOD Phase III contract awards in 2000, the Navy continues annually to award more in Phase III contracts then the rest of the DOD combined and continues to be called out in studies and Congressional language as the premier Department of Defense (DoD) SBIR program. Although no government SBIR funds are involved, phase III funding can come from the government and/or private sector. The target is to transition a company's SBIR effort into products, tools or services that benefit the Navy acquisition community.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605502N / *Small Business Innovative Research*	**Project (Number/Name)** 2813 / *SBIR - NSMA*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
One important strength of the SBIR program is that once a company has received a Phase I award the follow-on Phase II and III awards can be awarded in a non competitive process since the competitive process took place under phase I. ***FY 2014 Plans:*** N/A ***FY 2015 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	6.320	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*				Project (Number/Name) 2814 / *SBIR ADMIN - NSMA*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
2814: *SBIR ADMIN - NSMA*	-	0.474	-	-	-	-	-	-	-	-	-	0.474
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

SBIR Administration. Manage the program, technical efforts and award contracts related to SBIR.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	0.474	-	-
Articles:	-	-	-
FY 2013 Accomplishments: SBIR Administration			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	0.474	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*				Project (Number/Name) 3201 / *SBIR CPP - NAVAIR*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
3201: *SBIR CPP - NAVAIR*	-	0.883	-	-	-	-	-	-	-	-	-	0.883
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Section 252 of the 2006 NDAA Public Law No. 109-163 allowed up to 1% of the SBIR be used to fund the administrative costs of the Commercialization Pilot Program (CPP).

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	0.883	-	-
Articles:	-	-	-
FY 2013 Accomplishments: CPP Administration			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	0.883	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

CPP Administration

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*				Project (Number/Name) 3202 / *SBIR CPP - SPAWAR*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
3202: *SBIR CPP - SPAWAR*	-	0.147	-	-	-	-	-	-	-	-	-	0.147
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Section 252 of the 2006 NDAA Public Law No. 109-163 up to 1% of the SBIR be used to fund the administrative costs of the Commercialization Pilot Program (CPP).

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	0.147	-	-
Articles:	-	-	-
FY 2013 Accomplishments: N/A			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	0.147	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*				Project (Number/Name) 3203 / *SBIR CPP - NAVSEA*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
3203: *SBIR CPP - NAVSEA*	-	0.549	-	-	-	-	-	-	-	-	-	0.549
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Section 252 of the 2006 NDAA Public Law No. 109-163 allowed up to 1% of the SBIR be used to fund the administrative costs of the Commercialization Pilot Program (CPP).

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	0.549	-	-
Articles:	-	-	-
FY 2013 Accomplishments: N/A			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	0.549	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*				Project (Number/Name) 3204 / *SBIR CPP - MARINE CORPS*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
3204: *SBIR CPP - MARINE CORPS*	-	0.147	-	-	-	-	-	-	-	-	-	0.147
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Section 252 of the 2006 NDAA Public Law No. 109-163 allowed up to 1% of the SBIR be used to fund the administrative costs of the Commercialization Pilot Program (CPP).

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	0.147	-	-
Articles:	-	-	-
FY 2013 Accomplishments: N/A			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	0.147	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*				Project (Number/Name) 3205 / *SBIR CPP - ONR*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
3205: *SBIR CPP - ONR*	-	0.692	-	-	-	-	-	-	-	-	-	0.692
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Section 252 of the 2006 NDAA Public Law No. 109-163 allowed up to 1% of the SBIR be used to fund the administrative costs of the Commercialization Pilot Program (CPP).

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	0.692	-	-
Articles:	-	-	-
FY 2013 Accomplishments: N/A			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	0.692	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*	Project (Number/Name) 3213 / *NAVAIR STTR Program*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3213: *NAVAIR STTR Program*	-	12.443	-	-	-	-	-	-	-	-	-	12.443
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Small Business Technology Transfer (STTR) program requires each Federal agency that has an extramural budget for Research and Development (R&D) in excess of $1,000,000,000 to set aside 0.35% for STTR in FY 2013. This funds cooperative R&D between small businesses and research institutions. The program goals are to create vehicles from moving ideas from research institutions to market; enable researchers to pursue commercial application of technologies; and bridge funding gap between basic research and commercial product.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Phase I Feasibility	1.958	-	-
Articles:	-	-	-
FY 2013 Accomplishments: Phase I Feasibility: Phase I awards determined the scientific and technical merit and feasibility of the proposed effort and quality of performance by the small business concerns (SBC).			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Title: Phase II Technology Development	10.485	-	-
Articles:	-	-	-
FY 2013 Accomplishments: Phase II Technology Development: Phase II awards are based on the SBC's Phase I results and potential of the Phase II proposal to address the Navy's needs. These awards further developed the technology, maturing the Technology Readiness Level and providing prototypes or other sources validating the technology.			
FY 2014 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605502N / *Small Business Innovative Research*	**Project (Number/Name)** 3213 / *NAVAIR STTR Program*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
N/A ***FY 2015 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	12.443	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*				Project (Number/Name) 3233 / *SPAWAR STTR Program*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
3233: *SPAWAR STTR Program*	-	1.241	-	-	-	-	-	-	-	-	-	1.241
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Small Business Technology Transfer (STTR) program requires each Federal agency that has an extramural budget for R&D in excess of $1,000,000,000 to set aside 0.35% for STTR in FY 2012. This funds cooperative R&D between small businesses and research institutions. The program goals are to create vehicles from moving ideas from research institutions to market; enable researchers to pursue commercial application of technologies; and bridge funding gap between basic research and commercial product.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	1.241	-	-
Articles:	-	-	-
FY 2013 Accomplishments: N/A			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	1.241	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605502N / *Small Business Innovative Research*	Project (Number/Name) 3344 / *SBIR Trial Admin Program*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3344: *SBIR Trial Admin Program*	-	6.676	-	-	-	-	-	-	-	-	-	6.676
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Small Business Innovation Research (SBIR) program requires each Federal agency that has an extramural budget for R&D in excess of $100,000,000 to set aside 2.7% for SBIR in FY 2013. This funds R&D at small businesses. The program goals are to stimulate technological innovation; increase small business participation in federally funded R&D; foster participation by minority and disadvantaged firms in technological innovation; and increase private sector commercialization of federal R&D.

This project provides funding for the pilot administrative program authorized by the FY 2012 National Defense Authorization Act (SEC. 5141. PILOT TO ALLOW FUNDING FOR ADMINISTRATIVE, OVERSIGHT, AND CONTRACT PROCESSING COSTS.)

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Pilot Administrative Program	6.676	-	-
Articles:	-	-	-
FY 2013 Accomplishments: Provide funds for administrative requirements as authorized by the FY 2012 National Defense Authorization Act, SEC. 5141. PILOT TO ALLOW FUNDING FOR ADMINISTRATIVE, OVERSIGHT, AND CONTRACT PROCESSING COSTS.			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	6.676	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605502N / *Small Business Innovative Research*	**Project (Number/Name)** 3344 / *SBIR Trial Admin Program*

E. Performance Metrics

None.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy	Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0605804N *I Technical Information Services*

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	1.230	0.637	0.876	-	0.876	0.934	0.953	0.969	0.990	Continuing	Continuing
0835: *Tech Info System*	0.000	0.708	0.637	0.876	-	0.876	0.934	0.953	0.969	0.990	Continuing	Continuing
2296: *Federal Lab Consortium*	0.000	0.522	-	-	-	-	-	-	-	-	-	0.522

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Technical Information Services program provides support to achieve affordability in the development of Navy systems by reducing life-cycle costs through the facilitation of advanced technology associations between U.S. industry and the Navy. Warfighting effectiveness is enhanced through strategic relationships with industry to commercialize the science and technology developed by the Naval Research Enterprise and to gain: strategic understanding of industry Research and Development Programs and plans; access concepts and technologies; and access to business practices within the civil sector.

B. Program Change Summary ($ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	0.796	0.637	0.998	-	0.998
Current President's Budget	1.230	0.637	0.876	-	0.876
Total Adjustments	0.434	-	-0.122	-	-0.122
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	0.501	-			
• Rate/Misc Adjustments	-	-	-0.122	-	-0.122
• Congressional General Reductions Adjustments	-0.067	-	-	-	-

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605804N / *Technical Information Services*	Project (Number/Name) 0835 / *Tech Info System*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0835: *Tech Info System*	-	0.708	0.637	0.876	-	0.876	0.934	0.953	0.969	0.990	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The goal for this project is to enhance warfighter effectiveness by: leveraging industry independent Research and Development science and technology base; developing strategic partnerships with industry to transition private sector technology; and transferring appropriate Navy-developed innovative concepts and inventions to the private sector for purposes of commercialization. (Public Law 96-480, Federal Technology Transfer Act of 1986)

This project also provides the Department of the Navy (DoN) interface to the Office of the Assistant Secretary of Defense for Rapid Fielding, and to the Assistant Secretary of Commerce for Technology Policy for matters relating to policy and reporting requirements for technology transfer.

The funding increases FY 2014 to FY 2015 are due to the return on investment of T2 pilot projects to the Naval Research Enterprise by Chief of Naval Research.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: TECHNICAL INFORMATION SERVICES	0.708	0.637	0.876
Articles:	-	-	-

Description: Technical Information Services supports the spin-in and spin-out of research and development performed by Navy laboratories and industry. This program develops the tools and provides management oversight of the DoN Domestic Technology Transfer (T2) Program.

FY 2013 Accomplishments:
- Continued development of a database to capture value of technology transfer to the Navy and, if possible, platform insertion information.
- Continued efforts to raise visibility of Navy technologies through a more widely defined publications program.
- Continued studies to analyze trends of Cooperative Research and Development Agreements (CRADAs) in the Navy Defense Technology Transfer Information System (NDTTIS).
- Continued efforts to implement Navy participation in support of new dod T2 Strategic Plan.
- Continued efforts to advance the Navy engagement in the DOD 1401 T2 Program.
- Continued efforts to increase intellectual property mining activities at Navy laboratories.

Initiated the following efforts:

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605804N / *Technical Information Services*	**Project (Number/Name)** 0835 / *Tech Info System*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Two new pilot programs to support Technology Transfer(T2) efforts at Navy Office of Research and Technology Application (ORTA) activities across laboratories. - Effort to develop guidelines to implement the use of CRADAs in the Navy Acquisition Program. - Effort for Phase III of Navy Defense Technology Transfer Information System (NDTTIS) database to include value/impact of CRADAs including T2 and First Responder results of commercialization and benefits to the Warfighter. - Effort to implement two standardized T2 agreements. - Develop new T2 training course. ***FY 2014 Plans:*** Continue all efforts of FY 2013. Initiate the following efforts: - Two new pilot programs to support Technology Transfer (T2) efforts at Navy Office of Research and Technology Application (ORTA) activities across laboratories. - Efforts to raise visibility of Navy technologies through publications with a goal of 2 additional Trade publications. - Effort for Phase IV of Navy Defense Technology Transfer Information System (NDTTIS) database to include additional value/ impact of CRADAs and investigate a new search engine. - Effort to establish a Navy wide T2 Intellectual Property Mining Program. - Effort to provide ONR guidance to Navy wide Laboratory Management encouraging Office of Research and Technology Applications (ORTAs) to cross train with Acquisition/Program Managers. ***FY 2015 Plans:*** Continue all efforts of FY 2014. Initiate the following efforts: - Two new pilot programs to support Technology Transfer (T2) efforts at Navy Office of Research and Technology Application (ORTA) activities across laboratories. - Efforts to raise visibility of Navy technologies through publications. - Effort for Phase V of Navy Defense Technology Transfer Information System (NDTTIS) database to continue additional value/ impact of Cooperative Research and Development Agreements (CRADAs) and investigate a new search engine. - Effort to continue a Navy wide T2 Innovation Discovery/Intellectual Property Mining Program. - Effort to provide ONR guidance to Navy wide Laboratory Management encouraging representatives of the Office of Research and Technology Applications (ORTAs) accept developmental assignments in Acquisition.			
Accomplishments/Planned Programs Subtotals	0.708	0.637	0.876

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605804N / *Technical Information Services*	**Project (Number/Name)** 0835 / *Tech Info System*

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Demonstrate support for technological transitions from the Naval Research Enterprise into industrial and commercial enterprises supporting Navy programs of record and warfighter needs, by being responsive to Offices of Research and Technology Applications focal points for technology transfer in their development of Cooperative Research and Development Agreements (CRADA), and reducing transaction/information exchange timeframes by 25%.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605804N / *Technical Information Services*				Project (Number/Name) 2296 / *Federal Lab Consortium*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
2296: *Federal Lab Consortium*	-	0.522	-	-	-	-	-	-	-	-	-	0.522
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Federal Laboratory Consortium for Technology Transfer (FLC) was established by Congress under the Federal Technology Transfer Act of 1986 (P.L. 99-502, 20 October 1986, as amended). The FLC, in cooperation with federal laboratories and the private sector, provides services to enhance the transfer of federally-developed technology to include activities such as: developing and administering technology transfer training courses and materials; assisting Federal agencies and laboratories in their technology transfer programs; and providing a clearinghouse for technology transfer requests.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: New Accomplishment/Planned Program Entry	0.522	-	-
Articles:	-	-	-
FY 2013 Accomplishments: N/A			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	0.522	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

In accordance with the Federal Technology Transfer Act of 1986 (P.L. 99-502, 20 October 1986, as amended), disseminated funding judiciously.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*					R-1 Program Element (Number/Name) PE 0605853N *I Management, Technical & Intl Supt*							
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
Total Program Element	0.000	44.635	83.494	72.070	-	72.070	76.569	79.968	81.630	83.636	Continuing	Continuing
0149: *International Coop RDT&E*	0.000	2.924	4.316	3.608	-	3.608	3.325	3.417	3.493	3.538	Continuing	Continuing
1767: *Naval War Col Strategic Studies Supt*	0.000	3.183	5.313	4.762	-	4.762	4.422	4.496	4.609	4.719	Continuing	Continuing
2098: *Navy Postgraduate School (NPS) Studies Support*	0.000	-	14.000	5.000	-	5.000	-	-	-	-	-	19.000
2221.: *JT Mission Assessment Studies*	0.000	10.765	23.012	24.912	-	24.912	22.682	25.123	25.996	26.868	Continuing	Continuing
2801: *Anti-Tamper*	0.000	-	-	1.374	-	1.374	1.374	1.374	1.374	1.374	Continuing	Continuing
3025: *Mid-Range Financial Improvement Plans*	0.000	0.573	0.879	0.717	-	0.717	0.670	0.705	0.717	0.738	Continuing	Continuing
3039: *CHENG*	0.000	12.542	18.631	13.241	-	13.241	13.937	14.296	14.605	14.970	Continuing	Continuing
3330: *Naval Research Laboratory (NRL) Facilities Modernization*	0.000	2.191	2.393	1.611	-	1.611	15.214	15.617	15.896	16.205	Continuing	Continuing
3363: *PACOM Initiative*	0.000	-	7.950	7.945	-	7.945	14.945	14.940	14.940	15.224	Continuing	Continuing
3381: *JIE Initiiative*	0.000	-	-	8.900	-	8.900	-	-	-	-	-	8.900
9999: *Congressional Adds*	0.000	12.457	7.000	-	-	-	-	-	-	-	-	19.457

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

International Cooperative RDT&E: provide program management, execution, and support to implement a broad range of cooperative Naval Research and Development, Test and Evaluation initiatives to improve coalition interoperability, harmonize US Navy requirements with allied and friendly nations, and identify cooperative international opportunities, and improve coalition interoperability. In addition, it develops coherent approaches, coordinating with partner nations, to sea-based missile defense, command, control, communications, computers and intelligence (C4I), and cooperative acquisition programs while also identifying technology to support the Global Maritime Partnership initiative.

Naval War College Strategic Studies Support: Provides research, analysis and gaming activities which serve as a focal point, stimulus, and major source of strategic and operational thought within the Navy, joint and interagency communities. These efforts generate strategic and operational alternatives, quantitative analysis, war

gaming and political military assessments, and provide recommendations regarding the formulation and execution of maritime options . The War Gaming Department plans, designs, executes, analyzes and reports on the Navy's Title 10 war games. These war games provide analytical input to the Navy's Strategic Plan, assessments of future concepts, and recommendations to the Navy's Quadrennial Defense Review, force design, and strategy process. The War Gaming Department also designs, executes and analyzes war games for theater security cooperation plans and operational war fighting issues.

Assessment Program: The Navy Assessment Program provides capability-based planning assessment for Joint Capabilities Integration and Development System (JCIDS), conducts analysis to affect war fighting capability trades and enterprise resources, identifies needs, gaps, and overlaps, and assesses alternative solutions to Joint needs. The program supports both the development and use of modeling, simulation and analytically-based warfare and provides business analyses and analytic tools that provide the basis for decision making with respect to concepts of operations (CONOPS), Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) Systems (Information Dominance); warfare systems (Sea Strike, Sea Shield, and Sea Basing) and analytical underpinnings/ basis for programmatic decisions of the Navy's top leadership regarding their architectures, force structure, and the Navy's core "organize, train, and equip mission" (the warfare and provider Enterprises). The program provides overarching Planning, Programming, Budgeting and Execution System (PPBES) analyses and guidance for PPBES which provides gap analysis and investment strategy and total obligation authority allocation. It provides independent capability analysis and assists in structuring follow-on Navy analyses. The program coordinates Navy's position for the enhanced planning process and conducts net assessments. It serves as the lead campaign analysis to approve Navy warfare and support requirements. The program supports "A Cooperative Strategy for 21st Century Seapower 21" as modified by the Maritime Strategy which charts a course for the Navy, Coast Guard and Marine Corps to work collectively with each other and international partners to prevent crises from occurring or reacting quickly should one occur to avoid negative impact to the United States. It serves as an independent assessor providing a broad-view perspective across the Navy staff apart from resource sponsors, with an integrated look at both war fighting and war fighting support programs. The program supports the world class modeling efforts to attain a level of Modeling and Simulation (M&S) capability that is world class and establishes the Navy as a leader in the Department of Defense (DoD) M&S community. It provides Navy alternatives in assessing the implications embedded within resource decisions in a quantified context of costs versus capability versus risk. The program provides independent analytic support to Navy leadership in conjunction with various executive level decision forums. It develops tools and analytical methodologies that assist in evaluating Navy programs and provides technical leadership for the analysis functional area of Naval Modeling and Simulation.

Mid-Range Financial Improvement Plans: This project supports the Research Development Test & Evaluation, Navy (RDTEN) portion of the larger DoD and Navy-wide effort to implement the financial improvement plan. Funding is for the sustainment of clean and auditable statements for RDTEN.

Operations Integration Group: Classified

CHENG: Develops and implements architecture-based systems engineering processes, methods and tools that assure integrated and interoperable systems are delivered to the fleet. This project provides the mission-oriented technical basis for implementing capability-based acquisition management within the Navy to engineer and field Navy and Marine Corps combat systems, weapon systems, and command, control, communications, computers and intelligence (C4I) programs that must operate as family-of-systems (FoS) or system-of-systems (SoS). The focus of this project is on identifying the functions, relationships, and connections between systems at both the force and unit level and across warfare mission areas, and encompasses three key elements: Systems Engineering to provide the framework for making engineering decisions by war fighting capability at the FoS/SoS level and supports consistent engineering and investment decision-making across Navy

and Marine Corps programs within capability-based acquisition portfolios. Naval Collaborative Engineering Environment development and implementation as a DON enterprise resource for Naval integration and interoperability information to enable collaboration and decision support among Fleet organizations, Program Executive Offices, Program Managers, Systems Commands, prime contractors, Resource/Warfare Sponsors and Comptroller organizations. Standards, Policies and Guidelines engineering and technical staff to implement DoN, Office of the Secretary of Defense (OSD) and Joint integration and interoperability and Anti-Tamper initiatives.

Naval Research Laboratory (NRL)Facilities Modernization: This program has been established to provide a systematic and planned approach to improve vital in-house science and technology (S&T) laboratory facilities which are reaching or have reached critical stages of deterioration. The program includes restoration and modernization (R&M) initiatives for about 350,000 net square feet, where the average age of the buildings is 67 years old.

The Joint Information Environment (JIE) initiative provides the supporting IT capability framework comprised of shared information technology infrastructure, enterprise services, interoperability with coalition partners and a single security architecture that enables mission commanders to execute mission partnered operations. JIE provides the U.S. configuration controls necessary for enterprise capabilities. By utilizing a U.S enterprise-wide secure Identity and Access Management system, JIE ensures that authorized users at the right classification level gain access to only the data and services they are entitled. The continued development and refinement of a Joint Information Environment will provide for a significant improvement in data sharing within, and between, coalition maritime elements.

B. Program Change Summary ($ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	32.782	76.585	81.087	-	81.087
Current President's Budget	44.635	83.494	72.070	-	72.070
Total Adjustments	11.853	6.909	-9.017	-	-9.017
• Congressional General Reductions	-	-0.091			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	7.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	1.500	-			
• SBIR/STTR Transfer	-0.567	-			
• Program Adjustments	-	-	2.263	-	2.263
• Rate/Misc Adjustments	-	-	-11.280	-	-11.280
• Congressional General Reductions Adjustments	-4.080	-	-	-	-
• Congressional Add Adjustments	15.000	-	-	-	-

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2013	FY 2014
Project: 9999: *Congressional Adds*		
Congressional Add: *Printed Circuit Board Executive Agent*	12.457	7.000

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy	Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0605853N *I Management, Technical & Intl Supt*

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2013	FY 2014
Congressional Add Subtotals for Project: 9999	12.457	7.000
Congressional Add Totals for all Projects	12.457	7.000

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / *Management, Technical & Intl Supt*	Project (Number/Name) 0149 / *International Coop RDT&E*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0149: *International Coop RDT&E*	-	2.924	4.316	3.608	-	3.608	3.325	3.417	3.493	3.538	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Provides program management, execution, and support to implement a broad range of cooperative naval Research and Development, Test and Evaluation (RDT&E) initiatives to improve coalition interoperability, harmonize US Navy requirements with allied and friendly nations, identify cooperative international opportunities, and improve coalition interoperability. In addition, it develops coherent approaches in coordination with combatant commanders (COCOMs), and appropriate partner nations, to sea-based missile defense, command, control, communications, computers and intelligence (C4I), and cooperative acquisition programs while also identifying technology to support the Global Maritime Partnership Initiative.

The project scope supports the strategic shift to the Pacific Region with emphasis on Maritime Domain Awareness (MDA) and Coalition Interoperability. Relationships have been, and are being initiated with a greatly expanded and diverse group of maritime countries, particularly those with nascent and littoral navies. The project was restructured internally to both maintain ongoing international relationships and projects, while preparing to facilitate support for a global network of maritime nations under MDA and Coalition Interoperability requirements.

Ongoing cooperative RDT&E programs, projects and exchanges are pursued to identify cooperative acquisition programs, enhance OCO efforts and MDA development, fill capability gaps, improve US/coalition interoperability, and set standardization with international partners. Such efforts have resulted in:
1. Negotiating and developing approximately 57 international RDT&E Agreements annually with allied and friendly nations;
2. Executing approximately 300 Information Exchange Annexes (IEAs) with foreign partners;
3. Improving IEA information dissemination with allied and friendly countries and within Department of the Navy (DoN);
4. Coordinating Navy inputs to the Office of the Under Secretary of Defense (OUSD) Acquisition, Technology, and Logistics (AT&L) Foreign Comparative Test (FCT) Program, and Coalition Warfare Program (CWT) as well as the DoN Technology Transfer Security Assistance Review Boards (TTSARB).
5. Represent the US Navy in Office of the Secretary of Defense (OSD) directed Armaments Cooperation Forums, including the Conference of NATO Armaments Directors' groups {NATO Naval Armaments Group (NNAG)}, and Senior National Representative-Maritime (SNR-M);
6. Funding of various international RDT&E support databases including Technical Project Officer (TPO), International Agreement Generators, Information/Data Exchange Agreements, and Project Agreements/Memorandums of Understanding;
7. Leading the Engineering and Scientist Exchange Program (ESEP).

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: International Coop RDT&E	2.924	4.316	3.608
Articles:	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 0149 / *International Coop RDT&E*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
FY 2013 Accomplishments: - Continued to support Maritime Theater Missile Defense (MTMD) Forum that obtained $8.1M in R&D monies from Partner Nation contributions. The multi-lateral forum (9 Maritime Partner countries adn the US Navy) entered into four international agreements (Battle Management Command, Control, Communications, Computers and Intelligence (BMC4I); Distributed Engineering Plant; Open Architecture; and Modeling and Simulation (M&S). The MTMD has a goal of an at-sea capability demonstration in 2015. -Continued execution of approximately 300 Information Exchange Agreements/Date Exchange Agreements (IEA/DEA)with more than 30 countries. -Continued execution and support in placement of US Navy and partner nation engineers and scientists under OSD's Engineer and Scientist Exchange Program (ESEP). -Continue to coordinate US Navy participation in OUSD(AT&L) Foreign Comparative Test (FCT) and coalition Warfare Program (CWP) selection processes to meet emerging military capabiltiy requirements. -Funded various evolving potential cooperative exchanges and projects contribution to Maritime Domain Awareness (MDA) and irregular warfare including Multi-Mission Aircraft (MMA), Broad Area Maritime Surveillance (BAMS), Submarine Littoral Weapons System, and Swimmer Engagement. Coordinated US Navy Support to OUSD (AT&L) International Cooperation Office. -Supported new CNO-Initiated Strategy Dialogue with Australia, including Air and Expenditionary Warfare Working Groups for mutual development of requirements and projects. Supported NATO Naval Armaments Group (NNAG) and Five Power Groups on cooperative programs including harbor protection, electronic warfare, and Defense Against Terrorism (DAT) trials. -Continued execution of Expenditionary Warfare Working Group (EWWG). -Execution of Assured Precision Strike (APS) Study. -Execution of Above Water Working Group(AWWG). -Execution of Undersea Warfare Working Group (UWWG). -Exeuction of Commnication and Information Warfare Working Group (CIWWG). -Execution of Amphibious Operations Working Group (AOWG) -Execution of Pre-International Agreement Work. -Continued execution and support of NATO Maritime EW Trials/NATO Travel. -Execution of Army Contract SME TRI MAG Table Top Exercise.			
FY 2014 Plans: - Continue all efforts of FY13; - Continue to support Maritime Theater Missile Defense (MTMD) Forum that obtained $8.1M in R&D monies from Partner Nation contributions. The multi-lateral forum (9 Maritime Partner countries adn the US Navy) entered into four international agreements (Battle Management Command, Control, Communications, Computers and Intelligence (BMC4I); Distributed Engineering Plant; Open Architecture; and Modeling and Simulation (M&S). The MTMD has a goal of an at-sea capability demonstration in 2015.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 0149 / *International Coop RDT&E*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
-Continue execution of approximately 300 Information Exchange Agreements/Date Exchange Agreements (IEA/DEA)with more than 30 countries. -Continue execution and support in placement of US Navy and partner nation engineers and scientists under OSD's Engineer and Scientist Exchange Program (ESEP). -Continue to coordinate US Navy participation in OUSD(AT&L) Foreign Comparative Test (FCT) and coalition Warfare Program (CWP) selection processes to meet emerging military capabiltiy requirements. -Fund various evolving potential cooperative exchanges and projects contribution to Maritime Domain Awareness (MDA) and irregular warfare including Multi-Mission Aircraft (MMA), Broad Area Maritime Surveillance (BAMS), Submarine Littoral Weapons System, and Swimmer Engagement. Coordinate US Navy Support to OUSD (AT&L) International Cooperation Office. -Support new CNO-Initiated Strategy Dialogue with Australia, including Air and Expenditionary Warfare Working Groups for mutual development of requirements and projects. Support NATO Naval Armaments Group (NNAG) and Five Power Groups on cooperative programs including harbor protection, electronic warfare, and Defense Against Terrorism (DAT) trials. -Continue execution of Expenditionary Warfare Working Group (EWWG). -Execution of Assured Precision Strike (APS) Study. -Execution of Above Water Working Group(AWWG). -Execution of Undersea Warfare Working Group (UWWG). -Exeuction of Commnication and Information Warfare Working Group (CIWWG). -Execution of Amphibious Operations Working Group (AOWG) -Execution of Pre-International Agreement Work. -Continue execution and support of NATO Maritime EW Trials/NATO Travel.			
FY 2015 Plans: -Continue all efforts of FY14. - Continue to support Maritime Theater Missile Defense (MTMD) Forum that obtained $8.1M in R&D monies from Partner Nation contributions. The multi-lateral forum (9 Maritime Partner countries adn the US Navy) entered into four international agreements (Battle Management Command, Control, Communications, Computers and Intelligence (BMC4I); Distributed Engineering Plant; Open Architecture; and Modeling and Simulation (M&S). The MTMD has a goal of an at-sea capability demonstration in 2015. -Continue execution of approximately 300 Information Exchange Agreements/Date Exchange Agreements (IEA/DEA)with more than 30 countries. -Continue execution and support in placement of US Navy and partner nation engineers and scientists under OSD's Engineer and Scientist Exchange Program (ESEP). -Continue to coordinate US Navy participation in OUSD(AT&L) Foreign Comparative Test (FCT) and coalition Warfare Program (CWP) selection processes to meet emerging military capabiltiy requirements.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 0149 / *International Coop RDT&E*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
-Fund various evolving potential cooperative exchanges and projects contribution to Maritime Domain Awareness (MDA) and irregular warfare including Multi-Mission Aircraft (MMA), Broad Area Maritime Surveillance (BAMS), Submarine Littoral Weapons System, and Swimmer Engagement. Coordinate US Navy Support to OUSD (AT&L) International Cooperation Office. -Support new CNO-Initiated Strategy Dialogue with Australia, including Air and Expenditionary Warfare Working Groups for mutual development of requirements and projects. Support NATO Naval Armaments Group (NNAG) and Five Power Groups on cooperative programs including harbor protection, electronic warfare, and Defense Against Terrorism (DAT) trials. -Continue execution of Expenditionary Warfare Working Group (EWWG). -Execution of Assured Precision Strike (APS) Study. -Execution of Above Water Working Group(AWWG). -Execution of Undersea Warfare Working Group (UWWG). -Exeuction of Commnication and Information Warfare Working Group (CIWWG). -Execution of Amphibious Operations Working Group (AOWG) -Execution of Pre-International Agreement Work. -Continue execution and support of NATO Maritime EW Trials/NATO Travel.			
Accomplishments/Planned Programs Subtotals	2.924	4.316	3.608

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

The Navy International Cooperative RDT&E project supports the implementation of many international cooperative program activities throughout the Department of the Navy (DoN) RDT&E communities. The project funds DoN participation in NATO and OSD lead Armaments Cooperation as well as DoN lead international cooperation that promotes coalition interoperability and set standards with international partners. The focused activities under this project maximize the DoN's efforts by leveraging international technologies and funding to fill capabilities gaps, gain access to foreign research and testing data, and avoid duplication of research and development efforts. The performance goals and metrics are, in cooperation with Maritime Partner nations, to set and harmonize requirements, utilize respective technologies, encourage financial contributions and facilities use, and support forums and work that reduce DoN funding requirements.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / *Management, Technical & Intl Supt*	Project (Number/Name) 1767 / *Naval War Col Strategic Studies Supt*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
1767: *Naval War Col Strategic Studies Supt*	-	3.183	5.313	4.762	-	4.762	4.422	4.496	4.609	4.719	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Naval War College (NWC) research, analysis and gaming activities serve as a focal point, stimulus, and major source of strategic and operational thought within the Navy, Joint and Interagency communities. These efforts generate strategic and operational alternatives, tactical imperatives, quantitative analysis, war gaming, political-military assessments, and provide recommendations to the Chief of Naval Operations (CNO), Fleet Commanders and numbered Fleet Commanders regarding the formulation and execution of maritime options for the President of the United States.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Strategic Studies	1.333	1.483	1.476
Articles:	-	-	-

Description: Naval War College (NWC) conducts research in strategic studies in response to tasking from the Secretary of the Navy (SECNAV), Chief of Naval Operation (CNO), Fleet Commanders, numbered Fleet Commanders, and Combatant Commanders. NWC also hosts the activities of the CNO's Strategic Studies Group (SSG). The CNO SSG is a select group of senior naval officers handpicked by the CNO, who report to him in the development of revolutionary warfighting and operational concepts, such as Sea Strike and FORCEnet.

FY 2013 Accomplishments:
- Conducted research and analysis projects and provided supporting events for Office of the Chief of Naval Operations (OPNAV), the numbered Fleets, Navy Component Commanders, and the Combatant Commanders.
- Provided support for OPNAV Staff on operational and strategic level of war tasked research projects.
- Conducted CNO SSG tasking from the CNO to SSG XXXI to generate revolutionary operating and warfighting concepts for maritime operations in the age of hypersonic and directed energy weapons. Followed up on CNO and OPNAV actions resulting from SSG XXX Final Report "The Unmanned Imperative."
- Conducted research into the Chinese Maritime capabilities and affairs in order to enhance understanding of global developments and provided studies and advice for the CNO and the fleet.

FY 2014 Plans:
- Continue research and analysis projects and provide supporting events for OPNAV, the numbered Fleets, Navy Component Commanders, and the Combatant Commanders.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 1767 / *Naval War Col Strategic Studies Supt*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Continue to support the OPNAV Staff on tasked research projects. - Continue CNO SSG tasking from the CNO to SSG XXXII to generate revolutionary operating and warfighting concepts for future Navy and maritime operations. Follow up on CNO and OPNAV actions resulting from SSG XXXI Final Report. - Continue research into the Chinese Maritime capabilities and affairs in order to enhance understanding of global developments and provide studies and advice for the CNO and the fleet. - Conduct research in support of the refresh to the Navy's Strategy "Cooperative Strategy for the 21st Century." ***FY 2015 Plans:*** - Continue research and analysis projects and provide supporting events for OPNAV, the numbered Fleets, Navy Component Commanders, and the Combatant Commanders. - Continue to support the OPNAV Staff on tasked research projects. - Continue CNO SSG tasking from the CNO to SSG XXXIII to generate revolutionary operating and warfighting concepts for future Navy and maritime operations. Follow up on CNO and OPNAV actions resulting from SSG XXXII Final Report. - Continue research into the Chinese Maritime capabilities and affairs in order to enhance understanding of global developments and provide studies and advice for the CNO and the fleet.			
Title: Naval War Gaming Support	1.593	2.721	2.528
Articles:	-	-	-
Description: Naval War College (NWC) conducts strategic and operational war gaming and research for Office of the Chief of Naval Operations (OPNAV), the numbered Fleets, Fleet Commanders, and the Combatant Commanders. Each year, 55-60 major war games and associated events provide support to efforts that explore and analyze military, political, informational and economic aspects of differing strategic and operational scenarios and tactical imperatives. ***FY 2013 Accomplishments:*** - Conducted over 40-45 major war games and related events in support of OPNAV, the numbered Fleets, and the Combatant Commands. - Continued support for CNO and OPNAV with Navy Title X war games, research, and analysis. Continued to provide war gaming expertise to other services' Title 10 war games. - Continued to provide research, analysis, and war gaming support to senior Navy leadership in areas as directed, such as MDA, Irregular Warfare, cyber, and C4ISR - Continued to foster and sustain cooperative relationships with international partners through the use of war gaming, research, and analysis. - Continued to conduct research supporting war games co-sponsored with Naval Warfare Development Command			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 1767 / *Naval War Col Strategic Studies Supt*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
(NWDC) and US Joint Forces Command. - Continued to conduct analytic research on maritime security cooperation planning for forward based fleets. - Supported Fleet Commanders and advance concepts in war fighting areas of interest, such as critical infrastructure protection. - Continued to conduct advanced research and analysis for OPNAV on determining measures of effectiveness for the implementation of Cooperative Strategy for 21st Century Seapower. - Continued to conduct high level policy analytic research and gaming addressing Proliferation Security Initiatives for the Office of the Secretary of Defense (OSD). - Continued war gaming, research and analytical support for Navy core capabilities, such as deterrence, maritime security, and sea control. - Continued International War Gaming in support of Maritime Security Cooperation and implementation of Cooperative Strategy for 21st Century Seapower. - Continued to conduct research and analysis on key operational challenges such as theater anti-submarine Warfare, maritime missile defense, global maritime security, maritime homeland defense, maritime domain awareness, and sea basing.			
FY 2014 Plans: - Continue to conduct 55-60 major war games and related events in support of OPNAV, the numbered Fleets, and the Combatant Commands. - Continue to support CNO and OPNAV with Navy Title X war games, research, and analysis. Continue to provide war gaming expertise to other services' Title 10 war games. - Continue to provide research, analysis, and war gaming support to senior Navy leadership in areas as directed, such as MDA, Irregular Warfare, cyber, and C4ISR. - Continue to foster and sustain cooperative relationships with international partners through the use of war gaming, research, and analysis. - Continue to conduct research supporting war games co-sponsored with Naval Warfare Development Command (NWDC). - Continue to conduct advanced research and analysis for OPNAV on determining measures of effectiveness for the implementation of Cooperative Strategy for 21st Century Seapower. - Continue to conduct high level policy analytic research and gaming addressing Proliferation Security Initiatives for the Office of the Secretary of Defense (OSD). - Continue war gaming, research and analytical support for Navy core capabilities, such as deterrence, maritime security, and sea control. - Continue International War Gaming in support of Maritime Security Cooperation and implementation of Cooperative Strategy for 21st Century Seapower.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 1767 / *Naval War Col Strategic Studies Supt*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Continue to conduct research and analysis on key operational challenges such as theater anti-submarine Warfare, maritime missile defense, global maritime security, maritime homeland defense, maritime domain awareness, and sea basing. - Develop educational materials for the Maritime Advanced Warfighting School. ***FY 2015 Plans:*** - Continue to conduct 55-60 major war games and related events in support of OPNAV, the numbered Fleets, and the Combatant Commands. - Continue to support CNO and OPNAV with Navy Title X war games, research, and analysis. Continue to provide war gaming expertise to other services' Title 10 war games. - Continue to provide research, analysis, and war gaming support to senior Navy leadership in areas as directed, such as MDA, Irregular Warfare, cyber, and C4ISR. - Continue to foster and sustain cooperative relationships with international partners through the use of war gaming, research, and analysis. - Continue to conduct research supporting war games co-sponsored with Naval Warfare Development Command (NWDC). - Continue to support Fleet Commanders and advance concepts in war fighting areas of interest, such as critical infrastructure protection. - Continue to conduct advanced research and analysis for OPNAV on determining measures of effectiveness for the implementation of Cooperative Strategy for 21st Century Seapower. - Continue to conduct high level policy analytic research and gaming addressing Proliferation Security Initiatives for Office of the Secretary of Defense (OSD). - Continue war gaming, research and analytical support for Navy core capabilities, such as deterrence, maritime security, and sea control. - Continue to develop educational materials for the Maritime Advanced Warfighting School. - Continue to conduct research and analysis on key operational challenges such as theater ASW, IAMD, global maritime security, maritime homeland defense, MDA, and sea basing. - Continue to conduct research, analysis, and gaming on current area denial and anti access issues confronting naval forces. - Conduct research, analysis, and war gaming of emerging concepts such as anti access and area denial and air sea battle. - Provide research, analysis, and war gaming in support of Navy and Marine Corps issues identified by the Naval Board. - Conduct analytic research on maritime security cooperation planning for forward based fleets. - Lead the effort to conduct analytical research in operational concepts of Cyber Warfare. - Advance the concept of cyber war gaming, including development of cyber Common Operational Picture.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 1767 / *Naval War Col Strategic Studies Supt*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Support Fleet Commanders and advance concepts in war fighting areas of interest, such as critical infrastructure protection and counter piracy. - Support Fleet Commanders with high quality Course of Action Analysis and war games of operational plans. - Provide direct support to Navy operational level programs such as the maritime staff Operators Course, Executive Leaders Operational Course, CFMCC Course, and JFMCC Course. - Develop advanced war gaming analytical methods and tools such as the use of multi touch multi user boards and web based applications.			
Title: Warfare Analysis and Research ***Articles:*** ***Description:*** Naval War College (NWC) supports senior decision-makers from the Department of Defense, Department of the Navy, the numbered Fleets, Fleet Commanders and Combatant Commanders in reaching well-informed, objective decisions on strategic, operational and programmatic issues through collaborative research which integrates traditional research and analysis with advanced decision support tools. ***FY 2013 Accomplishments:*** - Conducted major decision events in support of Office of the Chief of Naval Operations (OPNAV), the numbered Fleets, Fleet Commanders, and the Combatant Commanders. Projects were in direct support of warfighting analysis requirements for numbered fleet commanders and were expanded to include Commander Seventh Fleet (C7F) with particular focus on India and the Indian Ocean. - Conducted analytical research on key strategic and operational challenges such as maritime ballistic missile defense, proliferation security initiative, global maritime security, maritime situational awareness, maritime operations headquarters, interconnectivity, and multi-service force deployment. - Continued additional evaluation of concepts and decision events in conjunction with war gaming center. - Conducted research targeted at the strategic and policy level decision making within China. - Provided direct support to NWC student research groups and war gaming. - 20-30 major decisions were conducted in support of these efforts. ***FY 2014 Plans:*** - Continue to conduct major decision events in support of OPNAV, the numbered Fleets, Fleet Commanders, and the Combatant Commanders. Projects are in direct support of warfighting analysis requirements for numbered fleet commanders and will expand to include the Commander Seventh Fleet (C7F) with particular focus on India and the Indian Ocean. - Continue to conduct analytical research on key strategic and operational challenges such as maritime ballistic missile defense, proliferation security initiative, global maritime security, maritime situational awareness,	0.236 -	0.380 -	0.421 -

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 1767 / *Naval War Col Strategic Studies Supt*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
maritime operations headquarters, interconnectivity, and multi-service force deployment. - Continue additional evaluation of concepts and decision events in conjunction with war gaming center. - Continue to conduct research targeted at the strategic and policy level decision making within China. - Continue to provide direct support to NWC student research groups and war gaming. - 25-30 major decision events will be conducted in support of these efforts. ***FY 2015 Plans:*** - Continue to conduct major decision events in support of OPNAV, the numbered Fleets, Fleet Commanders, and the Combatant Commanders. Projects were in direct support of warfighting analysis requirements for numbered fleet commanders and will expand to include the Commander Seventh Fleet (C7F) with particular focus on India and the Indian Ocean. - Continue to conduct analytical research on key strategic and operational challenges such as maritime ballistic missile defense, proliferation security initiative, global maritime security, maritime situational awareness, maritime operations headquarters, interconnectivity, and multi-service force deployment. - Continue additional evaluation of concepts and decision events in conjunction with war gaming center. - Continue to conduct research targeted at the strategic and policy level decision making within China. - Continue to provide direct support to NWC student research groups and war gaming. - 30-40 major decision events will be conducted in support of these efforts.			
Title: NWC Student Research Projects	0.021	0.117	0.118
Articles:	-	-	-
Description: Selected top performing Naval War College (NWC) students to conduct focused research and analysis of current and future strategic and operational challenges and tactical imperatives. These students are organized under the supervision of the Mahan Scholars Program and the Halsey Group Program. ***FY 2013 Accomplishments:*** - Conducted focused research, analysis and war gaming of current and future strategic/operational challenges and tactical imperatives by the Halsey Groups and Mahan Scholars programs. - Research groups continued to conduct focused research, analysis and free-play war gaming of current and future operational challenges and tactical imperatives arising from regional threats, homeland defense and access denial efforts at the high end of the conflict spectrum in the Pacific, European Command (EUCOM), Central Command (CENTCOM) and Northern Command (NORTHCOM) area of responsibility (AOR). Research and analysis efforts continued in those areas above, and expanded to include a detailed focus on counter-targeting, operational deception, and countering information denial and missile defense at the theater joint operational level.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 1767 / *Naval War Col Strategic Studies Supt*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Conducted research for the Deputy Secretary of Defense (DEPSECDEF) on matters tasked to the College. ***FY 2014 Plans:*** - Continue to conduct focused research, analysis and war gaming of current and future strategic/operational challenges and tactical imperatives by the Halsey Groups and Mahan Scholars programs. - Research groups continue to conduct focused research, analysis and free-play war gaming of current and future operational challenges and tactical imperatives arising from regional threats, homeland defense and access denial efforts at the high end of the conflict spectrum in the Pacific, European Command (EUCOM), Central Command CENTCOM) and Northern Command (NORTHCOM) area of responsibility (AOR). Research and analysis efforts continue in those areas above, and will be expanded to include a detailed focus on counter-targeting, operational deception, and countering information denial and missile defense at the theater joint operational level. - Continue to Conduct research for the Deputy Secretary of Defense (DEPSECDEF) on matters tasked to the College. ***FY 2015 Plans:*** - Continue to conduct focused research, analysis and war gaming of current and future strategic/operational challenges and tactical imperatives by the Halsey Groups and Mahan Scholars programs. - Research groups continue to conduct focused research, analysis and free-play war gaming of current and future operational challenges and tactical imperatives arising from regional threats, homeland defense and access denial efforts at the high end of the conflict spectrum in the Pacific, European Command (EUCOM), Central Command (CENTCOM) and Northern Command (NORTHCOM) area of responsibility (AOR). Research and analysis efforts continue in those areas above, and will be expanded to include a detailed focus on counter-targeting, operational deception, and countering information denial and missile defense at the theater joint operational level. - Continue to conduct research for the Deputy Secretary of Defense (DEPSECDEF) on matters tasked to the College.			
Title: Maritime Headquarters / Maritime Operations Center (MOC) Analysis	-	0.612	0.219
Articles:	-	-	-
Description: Formerly JFMCC/Worldwide Naval Component Commanders (WNCC). Naval War College (NWC) conducts research and analysis at the operational level of war, including direct support for the Maritime Headquarters (MHQ) and Maritime Operations Centers (MOC), as well as Combined/Joint Forces Maritime Component Commander (C/JFMCC) activities. These activities include support for concept and doctrine development of numbered fleet war games, exercises, education, research and analysis. NWC is responsible for development of Professional Military Education for Naval Component Commanders and Numbered Fleet Staff personnel, and the Numbered Fleet Commander, including education and research initiatives in support of concept of operations development, training and C/JFMCC advisory and assist team.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 1767 / *Naval War Col Strategic Studies Supt*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
FY 2013 Accomplishments: - Continued ongoing research initiated in FY12. - Delayed new Maritime Operations Center research until FY14 due to FY13 funding reductions. ***FY 2014 Plans:*** Maritime Staff Operators Course (MSOC): - Expand research into the required competencies for Maritime Staff Operations Course for officer and enlisted personnel to successfully operate at the operational level of war. - Actively participate in creation and review of existing and emerging doctrine, and have active involvement in development of evolving operational level issues. - Incorporate more interactive technologies for staff collaboration while conducting distributed operations. - Conduct research in advanced adaptive intelligence, information warfare, and other advanced decision-support tools, including adapting Spiral-developed systems into the MOC classroom environment. - Conduct research to improve coalition-related MOC education programs for International Officers and senior officers (continued improvements). Includes support for Maritime Advanced Warfighting School (MAWS) and alignment with all other operational level of education at NWC and other Service educational facilities. - Examine gaps in education at the Operational Level of War (OLW); develop Course of Instructions (COI) to close same gaps (Information management/knowledge management, et al). Assist and Assess Team (AAT): - Expand research and analysis into integrating lateral and vertical operations of Commander, TENTH Fleet MOC with operations at existing numbered fleet MOCs, USFFC and US Pacific Fleet, as well as upward to the new USCYBERCOM and downward to subordinate CTFs and commands. - Conduct research and analysis into potential methods for integration of information operations (to include cyber operations) with traditional kinetic joint fires operations. Cyber operations (network attack, defense, and exploitation) present unique challenges due to the global nature of the domain, the potential effects on other MOCs and the importance of alignment for effective strategic communication. - Conduct research into how Navy units worldwide can support the Commander, TENTH Fleet in the execution of the full spectrum of information and cyber operations. - Provide tailored assistance to Commander, TENTH Fleet and Commanders of other MOCs to communicate results of above research and analysis efforts and to strengthen staff knowledge of joint information operations planning, execution, and assessment. Joint/Combined Forces Maritime Commanders Course (J/CFMCC): - Conduct development/research in national and international implications of maritime commander leadership roles, and development of new flag course curriculum accordingly.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 1767 / *Naval War Col Strategic Studies Supt*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Conduct research in the impacts of transition from contract to government employee support for senior mentors with regards to the implementation of CNO's priorities on operational level leadership and flag academics. ***FY 2015 Plans:*** Maritime Staff Operators Course (MSOC): - Continue research as noted, including expansion of undertsanding of emergent warfare areas in MOC development and education. - Continue research/development on understanding and mitigation of gaps in education at the OLW. - Continue research to develop COI to close same gaps (Information management/knowledge management, et al). Assist and Assess Team (AAT): - Conduct research and analysis into integrating emerging doctrinal issues, thus improving the effectiveness of operations at existing numbered fleet MOCs, USFFC and US Pacific Fleet, as well as upward to the new USCYBERCOM and downward to subordinate CTFs and commands.			
Accomplishments/Planned Programs Subtotals	3.183	5.313	4.762

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

This project provides research, analysis and war gaming to meet the needs of the Secretary of the Navy, the Chief of Naval Operations, and Fleet Commanders. Performance is measured in terms of both the quantity and quality of war games, analysis and the extent to which demand for war games and research products can be accommodated within funding levels. Results of research products and war games are evaluated through customer feedback and the extent to which findings are incorporated into follow-on research and practical applications such as Navy doctrine, operational tactics, and programming decisions made during the Planning, Programming, Budgeting & Execution (PPBE) process.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / *Management, Technical & Intl Supt*	Project (Number/Name) 2098 / *Navy Postgraduate School (NPS) Studies Support*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2098: *Navy Postgraduate School (NPS) Studies Support*	-	-	14.000	5.000	-	5.000	-	-	-	-	-	19.000
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Navy Postgraduate School (NPS) research and analysis activities serve as a focal point, stimulus, and major source of strategic, tactical and operational thought within the Navy communities. These efforts generate strategic and operational alternatives, tactical imperatives, quantitative analyses, technical developments and assessments, and political-military assessments. Also, provide recommendations to the Chief of Naval Operations (CNO), Fleet Commanders and numbered Fleet Commanders regarding the formulation and execution of maritime options for the President of the United States. Research will be conducted to support graduate students theses determination and completion as part of Faculty projects. These research activities also serve as a means for OPNAV Resource Sponsors and Major Commands to have analysis and decision support research conducted in the uses of the applied, soft, and hard sciences in solving diverse and complex resource allocation and strategic issues facing the Navy today and envisioned in the future.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Faculty and Student Studies, Analysis and Research	-	14.000	5.000
Articles:	-	-	-

Description: Navy Postgraduate School (NPS) supports senior decision-makers from the Department of the Navy, the Office of the Chief of Naval Operations, Budget Submission Offices and Fleet Commanders in reaching well-informed, objective decisions on strategic, operational and programmatic issues through collaborative research which integrates traditional research and analysis with advanced decision support tools. Student Theses will be an integral part of this program in support of the critical analysis and research conducted by the Faculty.

FY 2013 Accomplishments:
N/A

FY 2014 Plans:
- Conduct studies in support of OPNAV N1
- Conduct studies in support of Naval Education and Training Command
- Conduct studies in support of Bureau of Naval Personnel
- Conduct studies in support of Navy Personnel Command
- Conduct studies in support of Navy Recruiting Command
- Conduct studies in support of Navy Service Training Command

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 2098 / *Navy Postgraduate School (NPS) Studies Support*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Conduct studies in support of Navy Manpower Analysis Center - Conduct studies in support of OPNAV N2/N6 - Conduct studies in support of OPNAV N3/N5 - Conduct studies in support of OPNAV N4 - Conduct studies in support of OPNAV N9 - Conduct studies in support of US Fleet Forces Command - Conduct studies in support of the Secretary of the Navy			
FY 2015 Plans: - Conduct studies in support of OPNAV N1 - Conduct studies in support of OPNAV N2/N6 - Conduct studies in support of OPNAV N3/N5 - Conduct studies in support of OPNAV N4 - Conduct studies in support of OPNAV N8 - Conduct studies in support of OPNAV N9 - Conduct studies in support of US Fleet Forces Command - Conduct studies in support of the Secretary of the Navy			
Accomplishments/Planned Programs Subtotals	-	14.000	5.000

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

This Project provides funding to support continuing need for studies and analysis to meet the needs of the Secretary of the Navy, the Chief of Naval Operations, Resource Sponsors, Major Commands and Fleet Commanders. Performance is measured in terms of both the quantity and quality of the studies, research and analysis products that can be accommodated within funding levels. Results of research products are evaluated through customer feedback and the extent to which findings are incorporated into follow-on research and practical applications such as Navy doctrine, operational tactics, and programming decisions made during the Planning, Programming, Budgeting & Execution (PPBE) process. This project supports research of both Naval Postgraduate School faculty and students,

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605853N / *Management, Technical & Intl Supt*				Project (Number/Name) 2221. / *JT Mission Assessment Studies*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
2221.: *JT Mission Assessment Studies*	-	10.765	23.012	24.912	-	24.912	22.682	25.123	25.996	26.868	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Navy Assessment Program provides capability-based planning assessment for Joint Capabilities Integration and Development System (JCIDS), conducts analysis to affect warfighting capability trades and enterprise resources, identifies needs, gaps, and overlaps, and assesses alternative solutions to Joint needs. The program supports both the development and use of modeling, simulation and analytically-based warfare and provides business analyses and analytic tools that provide the basis for decision making with respect to concepts of operations, Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance Systems (Information Dominance); warfare systems (Sea Strike, Sea Shield, and Sea Basing) and analytical underpinnings/basis for programmatic decisions of the Navy's top leadership regarding their architectures, force structure, and the Navy's core "organize,
train, and equip mission" (the warfare and provider Enterprises). The program provides overarching Planning, Programming, Budgeting and Execution System (PPBES) analyses and guidance for PPBES which provides gap analysis and investment strategy and total obligation authority allocation. It provides independent capability analysis and assists in structuring follow-on Navy analyses. The program coordinates Navy's position for the enhanced planning process and conducts net assessments. It serves as the lead campaign analysis to approve Navy warfare and support requirements. The program supports "A Cooperative Strategy for 21st Century Seapower 21" as modified by the Maritime Strategy which charts a course for the Navy, Coast Guard and Marine Corps to work collectively with each other and international partners to prevent crises from occurring or reacting quickly should one occur to avoid negative impact to the United States. It serves as an independent assessor providing a broad-view perspective across the Navy staff apart from resource sponsors, with an integrated look at both war fighting and war fighting support programs. The program supports the world class modeling efforts to attain a level of Modeling and Simulation (M&S) capability that is world class and establishes the Navy as a leader in the Department of Defense M&S community. It provides Navy alternatives in assessing the implications embedded within resource decisions in a quantified context of costs versus capability versus risk. The program provides independent analytic support to Navy leadership in conjunction with various executive level decision forums.

Beginning in FY 2014, this project also includes funding for Concept Formulation (CONFORM) efforts. This is a shift of funding from PE 0605152N, Studies and Analysis Support, Project 2092, Naval Warfare Studies. CONFORM for ships, boats and unmanned maritime vehicles must be continuously exercised to remain viable. It takes years to train competent practitioners, and knowledge currency is quickly lost without practice. Evolving threats and technologies drive concepts (and the tools, processes, and skills needed to produce them)
towards obsolescence without constant attention. Capability Based Assessments and Analysis of Alternatives (AoA) timelines are insufficient for establishing potential material solution cost versus capability relationships without significant concept formulation work beforehand. Active collaboration between the Office of the Chief of Naval Operations requirement sponsors, Program Offices, and the various System Command (Naval Sea Systems Command, Naval Air Systems Command and Space and Naval Warfare Systems Command) engineers is critical for fully exploring the trade space by conducting analysis for affordability, effectiveness and risk.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 2221. / *JT Mission Assessment Studies*

The majority of Total Ownership Cost (TOC) is locked into a design before it is even a program. In the later stages of a program it becomes much more costly to make changes that will significantly impact TOC. Investment up front in concept design can have a high payoff in TOC reduction over the life of a platform class.

This project funds concept development engineering, mission effectiveness analysis, and other analyses for formulation of future surface ship and associated platform force structure along with development of the tools to accomplish these efforts. Advanced platform concept studies and systems technology assessments will be conducted as will the development and upgrade of concept design and engineering tools, methods, and criteria.

Outputs include concept costing and performance parameterization for comparative assessment against capability objectives and synthesis to quantify overall (Fleet) capabilities. These products (expressions of cost vs. capability) will serve as the basis of requirements and Joint Capabilities Integration and Development System analysis, define the trade space for AoA efforts, and underpin discussion of force architecture/structure during Quadrennial Defense Review, Long Range Shipbuilding Strategy builds, and Joint Requirements Oversight Council
reviews.

Capabilities-Based Assessment (CBA) is the Joint Capabilities Integration and Development System (JCIDS) analysis process that includes three phases: Functional Area Analysis (FAA), Functional Needs Analysis (FNA), and Functional Solution Analysis (FSA). The results of the CBA are used to develop a joint capabilities document (based on the FAA and FNA) or initial capabilities document (based on the full analysis). CBA funding provides the resource sponsors the means to develop the analytic underpinning required by Chairman of the Joint Chiefs of Staff Instruction 3170.01G to support the determination of Naval warfighting capabilities and force structure needed to support the Joint Requirements Oversight Council (JROC)/JCIDS requirements validation process and to inform Program Objective Memorandum programming decisions. This analysis includes evaluation of integration and
interoperability gaps of current weapons systems.
The Navy Assessment Program provides capability-based planning assessment for Joint Capabilities Integration and Development System (JCIDS), conducts analysis to affect war fighting capability trades and enterprise resources, identifies needs, gaps, and overlaps, and assesses alternative solutions to Joint needs. The program supports both the development and use of modeling, simulation and analytically-based warfare and provides business analyses and analytic tools that provide the basis for decision making with respect to concepts of operations, Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance Systems (Information Dominance); warfare systems (Sea Strike, Sea Shield, and Sea Basing) and analytical underpinnings/basis for programmatic decisions of the Navy's top leadership regarding their architectures, force structure, and the Navy's core "organize, train, and equip mission" (the warfare and provider Enterprises). The program provides overarching Planning, Programming, Budgeting and Execution System (PPBES) analyses and guidance for PPBES which provides gap analysis and investment strategy and total obligation authority allocation. It provides independent capability analysis and assists in structuring follow-on Navy analyses. The program coordinates Navy's position for the enhanced planning process and conducts net assessments. It serves as the lead campaign analysis to approve Navy warfare and support requirements. The program supports "A Cooperative Strategy for 21st Century Seapower 21" as modified by the Maritime Strategy which charts a course for the Navy, Coast Guard and Marine Corps to work collectively with each other and international partners to prevent crises from occurring or reacting quickly should one occur to avoid negative impact to the United States. It serves as an independent assessor providing a broad-view perspective across the Navy staff apart from resource sponsors, with an integrated look at both war fighting and war fighting support programs. The program supports the world class modeling efforts to attain a level of Modeling and Simulation (M&S) capability that is world class and establishes the Navy as a leader in the Department of Defense M&S community. It provides

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 2221. / *JT Mission Assessment Studies*

Navy alternatives in assessing the implications embedded within resource decisions in a quantified context of costs versus capability versus risk. The program provides independent analytic support to Navy leadership in conjunction with various executive level decision forums.

Beginning in FY 2014, this project also includes funding for Concept Formulation (CONFORM) efforts. This is a shift of funding from PE 0605152N, Studies and Analysis Support, Project 2092, Naval Warfare Studies. CONFORM for ships, boats and unmanned maritime vehicles must be continuously exercised to remain viable. It takes years to train competent practitioners, and knowledge currency is quickly lost without practice. Evolving threats and technologies drive concepts (and the tools, processes, and skills needed to produce them) towards obsolescence without constant attention. Capability Based Assessments and Analysis of Alternatives (AoA) timelines are insufficient for establishing potential material solution cost versus capability relationships without significant concept formulation work beforehand. Active collaboration between the Office of the Chief of Naval Operations requirement sponsors, Program Offices, and the various System Command (Naval Sea Systems Command, Naval Air Systems Command and Space and Naval Warfare Systems Command) engineers is critical for fully exploring the trade space by conducting analysis for affordability, effectiveness and risk.
The majority of Total Ownership Cost (TOC) is locked into a design before it is even a program. In the later stages of a program it becomes much more costly to make changes that will significantly impact TOC. Investment up front in concept design can have a high payoff in TOC reduction over the life of a platform class.
This project funds concept development engineering, mission effectiveness analysis, and other analyses for formulation of future surface ship and associated platform force structure along with development of the tools to accomplish these efforts. Advanced platform concept studies and systems technology assessments will be conducted as will the development and upgrade of concept design and engineering tools, methods, and criteria.
Outputs include concept costing and performance parameterization for comparative assessment against capability objectives and synthesis to quantify overall (Fleet) capabilities. These products (expressions of cost vs. capability) will serve as the basis of requirements and Joint Capabilities Integration and Development System analysis, define the trade space for AoA efforts, and underpin discussion of force architecture/structure during Quadrennial Defense Review, Long Range Shipbuilding Strategy builds, and Joint Requirements Oversight Council reviews.

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 2221. / *JT Mission Assessment Studies*

Capabilities-Based Assessment (CBA) is the Joint Capabilities Integration and Development System (JCIDS) analysis process that includes three phases: Functional Area Analysis (FAA), Functional Needs Analysis (FNA), and Functional Solution Analysis (FSA). The results of the CBA are used to develop a joint capabilities document (based on the FAA and FNA) or initial capabilities document (based on the full analysis). CBA funding provides the resource sponsors the means to develop the analytic underpinning required by Chairman of the Joint Chiefs of Staff Instruction 3170.01G to support the determination of Naval warfighting capabilities and force structure needed to support the Joint Requirements Oversight Council (JROC)/JCIDS requirements validation process and to inform Program Objective Memorandum programming decisions. This analysis includes evaluation of integration and
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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 2221. / *JT Mission Assessment Studies*

collaboration between the Office of the Chief of Naval Operations requirement sponsors, Program Offices, and the various System Command (Naval Sea Systems Command, Naval Air Systems Command and Space and Naval Warfare Systems Command) engineers is critical for fully exploring the trade space by conducting analysis for affordability, effectiveness and risk.

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Navy Standard Scenarios with Warfare and Warfare Support Analyses	0.702	1.184	1.289
Articles:	-	-	-

FY 2013 Accomplishments:

-Continued to update and maintain detailed level Navy Standard scenarios based on Defense Planning Guidance (DPG).
-Continued to develop alternative scenarios in support of Defense Review guidance, Joint studies, and Navy resource analyses.
-Continued to develop details required to execute analysis of designated Defense Planning Scenarios and their respective Multi Service Force Deployment Plans.
-Maintained a framework and common set of processes to ensure that essential elements of warfare analyses, including scenarios, operational concepts, tactics, capabilities of platforms and systems (for Navy, Joint, coalition and threat forces), key assumptions and input data are defined and traceable to government approved/provided source material.
-Continued to develop scenarios and operational concepts based on government inputs that are sufficiently detailed for use in Naval and Joint campaign analyses.
-Continued to develop MOPs and MOEs and recommend appropriate modeling/methodology to support analyses, and provide input to operational situations or tactical situations for use in effectiveness analyses in specific warfare mission areas.

FY 2014 Plans:

-Develop and continue to update and maintain detailed level Navy Standard scenarios based on DPG.-Continue to develop alternative scenarios in support of Defense Review guidance, Joint studies, and Navy resource analyses.
-Develop, update, and maintain analytic baselines for the MCO based on DPG.
-Continue to develop details required to execute analysis of designated Defense Planning Scenarios and their respective Multi-Service Force Deployment Plans.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 2221. / *JT Mission Assessment Studies*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
-Update the high-level readiness model that fully integrates all aspects of warfighting support (operational utilization, training cycles, training centers, depots, etc.) and personnel (recruitment, training,development, deployment,retention,etc.) accross the Navy's warfighting platforms(aircraft,ships,submarines,etc.),facilities and personnel development centers. -Develop and continue to maintain a framework and common set of processes to ensure that essential elements of warfare analyses, including scenarios, operational concepts, tactics, capabilities of platforms and systems (for Navy, Joint, coalition and threat forces), key assumptions and input data were defined and traceable to government approved/provided source material. -Continue to develop scenarios and operational concepts based on government inputs that are sufficiently detailed for use in naval and joint campaign analyses. -Continue to develop MOPs and MOEs and recommend appropriate modeling/methodology to support analyses. -At the mission level, script OPSITS or TACSITS for use in effectiveness analyses in specific warfare mission areas. ***FY 2015 Plans:*** -Continue to develop, update and maintain detailed level Navy Standard scenarios based on DPG. -Continue to develop alternative scenarios in support of Defense Review guidance, Joint studies, and Navy resource analyses. -Continue to develop, update, and maintain analytic baselines for the MCO) based on DPG. -Continue to develop details required to execute analysis of designated Defense Planning Scenarios and their respective Multi-Service Force Deployment Plans. -Continue to develop and maintain a framework and common set of processes to ensure that essential elements of warfare analyses, including scenarios, operational concepts, tactics, capabilities of platforms and systems (for Navy, Joint, coalition and threat forces), key assumptions and input data were defined and traceable to government approved/provided source material. -Continue to develop scenarios and operational concepts based on government inputs that are sufficiently detailed for use in naval and joint campaign analyses. -Continue to develop MOPs and MOEs and recommend appropriate modeling/methodology to support analyses. -At the mission level, continue to script OPSITS or TACSITS for use in effectiveness analyses in specific warfare mission areas.			
Title: Capability Based Assessments with Campaign Mission Analyses Analytical and Technical Support	2.105	2.501	2.531
Articles:	-	-	-
FY 2013 Accomplishments: Performed collaborative assessment with capability sponsors. -Proactively participated in Capability Sponsors' Integrated Process Teams. -Presented opposing analytically-based points of view to the Chief of Naval Operations (CNO) and Navy senior leadership. -Provided analytically-based decision recommendations to CNO for both war fighting and support areas. -Developed CNO investment strategy recommendations and assessments for Program Review and Program Objective Memorandum (POM).			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 2221. / *JT Mission Assessment Studies*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
-Assessed capability sponsors' products for senior leadership decision forums. -Conducted Verification, Validation & Accreditation of warfare, performance, and pricing models. -Conducted Overseas Contingency Operation (OCO) Capabilities-Based Assessments (CBAs) that provide a rapid and scalable process to utilize a Concept of Operation, develop investment strategy, and a capability roadmap. -Conducted Tactical Aircraft Recapitalization alternatives and Theater Ballistic Missile Defense cost capability trade off assessments. -Conducted independent assessment of Anti-Submarine Warfare. -Conducted weapons safety and sea basing capability assessments. -Conducted Intelligence, Surveillance, and Reconnaissance (ISR) and Meteorological and Oceanographic (METOC) assessment to determine the optimal mix of Naval ISR and METOC sensors, platforms, and processing, analysis and fusion disposition to support Major Combat Operations (MCOs), the OCO, and intelligence preparation of the environment for both MCOs and OCO. -Performed CBAs to meet the requirements of current and future scenarios, and make strategic decisions within a constrained economic framework. -Performed rigorous, time critical naval and joint campaign and mission-level analyses, usually based on modeling and simulation that illuminate complex warfare issues which support decision-making in the Planning, Programming, Budgeting Execution process. -Performed analyses and provide technical and engineering support, including joint campaign analysis that examine the ability to counter a range of coordinate threat capabilities, high level tradeoffs between service capabilities, or impact of large-scale architecture, mission-level effectiveness analyses that determine system capabilities; conducted analyses of alternative force structures that determine the ability to meet peacetime deployment or steady-state requirements and responded to transition to war and contingency operations. -Conducted cost analyses, cost-effectiveness analyses, and analyses of new technologies in support of Sponsor Program Proposal, Navy Program Objective Memorandum or Warfare Capability Plan. -Developed innovative analysis techniques that evaluate the effectiveness of operations on the Long War focus on Irregular Warfare and Sea Shaping (influence) activities such as Theater Security Cooperation. -Provided rigorous business case assessments of complex issues relating to the war fighting support processes, manpower and personnel, training and education, infrastructure, both afloat and ashore readiness, Naval Medical Program and provider enterprise operations. -Performed analyses for accreditation of models, use estimate cost and performance of performance-based modeled programs such as the Flying Hour Program, ship operations, ship and aircraft maintenance, spares, facilities, and base operation support.			
FY 2014 Plans: -Perform collaborative assessment with capability sponsors. -Proactively participate in Capability Sponsors' Integrated Process Teams.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 2221. / *JT Mission Assessment Studies*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
-Present opposing analytically-based points of view to the CNO and Navy senior leadership. -Provide analytically-based decision recommendations to CNO for both war fighting and support areas. -Develop CNO investment strategy recommendations and assessments for Program Review and POM. -Assess capability sponsors' products for senior leadership decision forums. -Conduct Verification, Validation & Accreditation of warfare, performance, and pricing models. -Conduct OCO CBAs that provide a rapid and scalable process to utilize a Concept of Operation, develop investment strategy, and a capability roadmap. -Conduct Tactical Aircraft Recapitalization alternatives and Theater Ballistic Missile Defense cost capability trade off assessments. -Conduct independent assessment of Anti-Submarine Warfare. -Conduct weapons safety and sea basing capability assessments. -Conduct ISR and METOC assessment to determine the optimal mix of Naval ISR and METOC sensors, platforms, and processing, analysis and fusion disposition to support MCOs, the OCO, and intelligence preparation of the environment for both MCOs and OCO. -Perform CBAs to meet the requirements of current and future scenarios, and make strategic decisions within a constrained economic framework. -Perform rigorous, time critical naval and joint campaign and mission-level analyses, usually based on modeling and simulation that illuminate complex warfare issues which support decision-making in the Planning, Programming, Budgeting Execution process. -Perform analyses and provide technical and engineering support, including joint campaign analysis that examine the ability to counter a range of coordinate threat capabilities, high level tradeoffs between service capabilities, or impact of large-scale architecture, mission-level effectiveness analyses that determine system capabilities; conduct analyses of alternative force structures that determine the ability to meet peacetime deployment or steady-state requirements and respond to transition to war and contingency operations. -Conduct cost analyses, cost-effectiveness analyses, and analyses of new technologies in support of Sponsor Program Proposal, Navy POM or Warfare Capability Plan. -Develop innovative analysis techniques that evaluate the effectiveness of operations on the Long War focus on Irregular Warfare and Sea Shaping (influence) activities such as Theater Security Cooperation. -Provide rigorous business case assessments of complex issues relating to the war fighting support processes, manpower and personnel, training and education, infrastructure, both afloat and ashore readiness, Naval Medical Program and provider enterprise operations. -Perform analyses for accreditation of models, use estimate cost and performance of performance-based modeled programs such as the Flying Hour Program, ship operations, ship and aircraft maintenance, spares, facilities, and base operation support.			
FY 2015 Plans:			

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Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 2221. / *JT Mission Assessment Studies*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
-Continue to perform collaborative assessment with capability sponsors. -Continue to proactively participate in Capability Sponsors' Integrated Process Teams. -Continue to present opposing analytically-based points of view to the CNO and Navy senior leadership. -Continue to provide analytically-based decision recommendations to CNO for both war fighting and support areas. -Continue to develop CNO investment strategy recommendations and assessments for Program Review and Program Objective Memorandum. -Continue to assess capability sponsors' products for senior leadership decision forums. -Continue to conduct Verification, Validation & Accreditation of warfare, performance, and pricing models. -Continue to conduct OCO CBAs that provide a rapid and scalable process to utilize a Concept of Operation, develop investment strategy, and a capability roadmap. -Continue to conduct Tactical Aircraft Recapitalization alternatives and Theater Ballistic Missile Defense cost capability trade off assessments. -Continue to conduct independent assessment of Anti-Submarine Warfare. -Continue to conduct weapons safety and sea basing capability assessments. -Continue to conduct ISR and METOC assessment to determine the optimal mix of Naval ISR and METOC sensors, platforms, and processing, analysis and fusion disposition to support MCOs, the OCO, and intelligence preparation of the environment for both MCOs and OCO. -Continue to perform CBAs to meet the requirements of current and future scenarios, and make strategic decisions within a constrained economic framework. -Continue to perform rigorous, time critical naval and joint campaign and mission-level analyses, usually based on modeling and simulation that illuminate complex warfare issues which support decision-making in the PPBES process. -Continue to perform analyses including joint campaign analysis that examine the ability to counter a range of coordinate threat capabilities, high level tradeoffs between service capabilities, or impact of large-scale architecture, mission-level effectiveness analyses that determine system capabilities; conduct analyses of alternative force structures that determine the ability to meet peacetime deployment or steady-state requirements and respond to transition to war and contingency operations. -Continue to conduct cost-effectiveness analyses and analyses of new technologies in support of Sponsor Program Proposal, Navy Program Objective Memorandum or Warfare Capability Plan. -Continue to develop innovative analysis techniques that evaluate the effectiveness of operations on the Long War focus on Irregular Warfare and Sea Shaping (influence) activities such as Theater Security Cooperation. -Continue to provide rigorous business case assessments of complex issues relating to the war fighting support processes, manpower and personnel, training and education, infrastructure, both afloat and ashore readiness, Naval Medical Program and provider enterprise operations.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 2221. / *JT Mission Assessment Studies*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
-Continue to use estimate cost and performance of performance-based modeled programs such as the Flying Hour Program, ship operations, ship and aircraft maintenance, spares, facilities, and base operation support.			
Title: Campaign Analysis-Modeling and Simulation	1.707	4.702	4.757
Articles:	-	-	-
FY 2013 Accomplishments: -Maintained common baselines from which campaign excursions and mission-level analyses are executed. -Identified and improved data and modeling. -Lead Navy's participation in the Office of the Secretary of Defense (OSD)/Joint Staff analytic agenda, baseline development, and collection of data. -Provided coordination across the Navy. -Brokered agreements upon assumptions, Concept of Operations (CONOPS), scenarios, and data. -Lead campaign analysis for Office of the Chief of Naval Operations (OPNAV). -Conducted modeling and simulation support for ongoing OPNAV missile defense analysis requirements. . ***FY 2014 Plans:*** -Develop and maintain common baselines from which campaign excursions and mission-level analyses are executed. -Identify, develop, and improve data and modeling. -Lead Navy's participation in the OSD/Joint Staff analytic agenda, baseline development, and collection of data. -Provide coordination across the Navy. -Broker agreements upon assumptions, CONOPS, scenarios, and data. -Lead campaign analysis for OPNAV. -Conduct modeling and simulation support for ongoing OPNAV missile defense analysis requirements. ***FY 2015 Plans:*** -Continue to develop and maintain common baselines from which campaign excursions and mission-level analyses are executed. -Continue to identify, develop and improve data and modeling. -Continue to lead Navy's participation in OSD/Joint Staff analytic agenda, baseline development, and collection of data. -Continue to provide coordination across the Navy. -Continue to broker agreements upon assumptions, CONOPS, scenarios, and data. -Continue to lead campaign analysis for OPNAV. -Continue to conduct modeling and simulation support for ongoing OPNAV missile defense analysis requirements.			
Title: OSD/Joint Staff Study Analysis and Assessment with Investment Strategy Development	0.933	1.712	1.733

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 2221. / *JT Mission Assessment Studies*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Articles:	-	-	-
FY 2013 Accomplishments: -Coordinated OSD/Navy's Analytic Agenda in Defense Planning Scenario, Multi-Service Force Deployment, Enhance Planning Process, Strategic Planning Guidance, and participate in Capability Sponsors' Integrated Process Teams. -Provided overarching PPBES analyses and guidance. -Provided analytically-based decision recommendations to Office of the Chief of Naval Operations (OPNAV) for joint war fighting and support areas. -Conducted net assessments and provided independent analytic support to Navy leadership in conjunction with various executive level decision forums. -Served as the Navy's lead to Joint Requirements Oversight Council, Joint Capabilities Board, and Functional Capabilities Board. -Coordinated Navy's role in Defense Planning Guidance, Program Decision Memoranda, Quadrennial Defense Review, and Defense Science Board studies. -Developed new analytic techniques for informing resource allocation decisions; conducted all campaign and warfare mission-level analyses and developed investment strategy. -			
FY 2014 Plans: -Coordinate and lead OSD/Navy's Analytic Agenda in Defense Planning Scenario, Multi-Service Force Deployment, Enhance Planning Process, Strategic Planning Guidance, and participate in Capability Sponsors' Integrated Process Teams. -Provide overarching PPBES analyses and guidance. -Provide analytically-based decision recommendations to OPNAV for joint war fighting and support areas. -Conduct net assessments and provide independent analytic support to Navy leadership in conjunction with various executive level decision forums. -Serve as the Navy's lead to Joint Requirements Oversight Council, Joint Capabilities Board, and Functional Capabilities Board. -Provide the lead requirements and acquisition for OPNAV. -Coordinate and lead Navy's role in Defense Planning Guidance, Program Decision Memoranda, Quadrennial Defense Review, and Defense Science Board studies. -Participate in OSD and JS analysis assessment and provided structure for coordination across the Navy. -Coordinate and support Joint Analytical Model Improvement Program. -Develop new analytic techniques for informing resource allocation decisions; conduct all campaign and warfare mission-level analyses and develop investment strategy.			
FY 2015 Plans:			

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Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 2221. / *JT Mission Assessment Studies*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
-Continue to coordinate and lead OSD/Navy's Analytic Agenda in Defense Planning Scenario, Multi-Service Force Deployment, Enhance Planning Process, Strategic Planning Guidance, and participate in Capability Sponsors' Integrated Process Teams. -Continue to provide overarching PPBES analyses and guidance. -Continue to provide analytically-based decision recommendations to OPNAV for joint war fighting and support areas. -Continue to conduct net assessments and provide independent analytic support to Navy leadership in conjunction with various executive level decision forums. -Continue to serve as the Navy's lead to Joint Requirements Oversight Council, Joint Capabilities Board, and Functional Capabilities Board. -Continue to provide the lead requirements and acquisition for OPNAV. -Continue to coordinate and lead Navy's role in Defense Planning Guidance, Program Decision Memoranda, Quadrennial Defense Review, and Defense Science Board studies. -Continue to participate in OSD and JS analysis assessment and provided structure for coordination across the Navy. -Continue to coordinate and support Joint Analytical Model Improvement Program. -Continue to develop new analytic techniques for informing resource allocation decisions; conduct all campaign and warfare mission-level analyses and develop investment strategy.			
Title: World Class Modeling, Simulation, and Capability Analysis	-	6.716	6.791
Articles:	-	-	-
FY 2013 Accomplishments: N/A			
FY 2014 Plans: -Address the one-year backlog of Modeling and Simulation (M&S) efforts due to the lack of FY13 funding. Specifically modeling or analysis gaps that have been corporately deemed critical to improving POM decision-making. -Develop and improve analysis capabilities which support Joint and Navy analytic agendas and resource-allocation decision making by refining the linkages between cost and performance in performance-modeled programs in support of OPNAV analysis and assessment. Areas of tool development and improvement include mission- and campaign-level warfighting models, active and reserve manpower, afloat and ashore readiness, and medical capabilities. -Focus on integrated analysis capabilities that cut across business and program accounts. Specific efforts will address cyber warfare and security, optimizing the training pipeline, integrating ship maintenance and operations price performance models, and improving mission- and campaign-level C5ISR models and representations.			

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Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 2221. / *JT Mission Assessment Studies*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
-Update the high-level readiness model that fully integrates all aspects of warfighting support (operational utilization, training cycles, training centers, depots, etc.) and personnel (recruitment, training, development, deployment, retention, etc.) across the Navy's warfighting platforms (aircraft, ships, submarines, etc.), facilities and personnel development centers. ***FY 2015 Plans:*** -Continue to develop and improve the Navy's analysis capabilities which support Joint and Navy analytic agendas and resource-allocation decision making by refining the linkages between cost and performance in performance-modeled programs in support of OPNAV analysis and assessment. Areas of tool development and improvement include mission- and campaign-level warfighting models, active and reserve manpower, afloat and ashore readiness, and medical capabilities. -Continue to focus on integrated analysis capabilities that cut across business and program accounts. Specific efforts will address cyber warfare and security, optimizing the training pipeline, integrating ship maintenance and operations price performance models, and improving mission- and campaign-level C5ISR models and representations. -Develop medical analysis that links to campaign analysis including movement of injured between care facilities, life-saving treatment of injured and recuperation support of injured to support Navy Medical Program decisions. -Update the high-level readiness model that fully integrates all aspects of warfighting support (operational utilization, training cycles, training centers, depots, etc.) and personnel (recruitment, training, development, deployment, retention, etc.) across the Navy's warfighting platforms (aircraft, ships, submarines, etc.), facilities and personnel development centers.			
Title: CONFORM	-	3.462	3.562
Articles:	-	-	-
FY 2013 Accomplishments: N/A			
FY 2014 Plans: - Conduct ship, boat and unmanned marine vehicle concept studies in preparation for Capabilities Based Assessments (CBAs) and Analysis of Alternatives (AoAs). Studies will be performed in a continuous manner to support future recapitalization of Surface Combatants, Amphibious Ships, Carriers, Auxiliary Ships and other emerging program requirements. - Collaborate with Warfare Systems design experts to perform continuous Warfare Systems analysis at the ship and fleet level. Warfare Systems effectiveness assessment tools will be continually developed and enhanced as required to address future concepts and to incorporate improvements in information technology systems. Additionally, collaboration with aircraft, C4ISR, and networks by continuing dialog and collaboration between NAVSEA, NAVAIR, and SPAWAR systems commands will refine fleet level requirements. - Refine platform concept stage cost analysis tools to predict cost better in areas where weight-based algorithms may not be appropriate. It will continually enhance tools to estimate total ownership cost more accurately at the ship and weapons system concept development stage. Conduct cost estimates in support of future concept design exploration, CBA, and AoA efforts.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 2221. / *JT Mission Assessment Studies*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Further develop Cost Estimating Relationships (CERs) to accommodate emerging technologies incorporated in future platforms. Develop cost estimating tools which incorporate emerging technologies applicable to future platforms. - Conduct future force structure concept formulation. Fleet synthesis and analysis will be conducted, which includes capabilities requirements, platform design and cost and quantitative tracking of the long-term evolution of the fleet as new platforms are introduced and old ones are retired. Among the areas to be examined are interoperability concepts, force architecture impact studies, Long Range Shipbuilding Schedule (LRSS) support, and operational employment concept studies. -Continue CBA's for off-board data transfer for mine warfare systems, Navy Salvage, adversary aircraft, and uunderwater breathing apparatus. Commence CBA for surface connector replacement and undergraduate flight training. ***FY 2015 Plans:*** -Conduct ship, boat, and unmanned marine vehicle concept studies in preparation for Capabilities Based Assessments (CBAs) and Analysis of Alternatives (AoAs). Studies will be performed in a continuous manner to support future recapitalization of Surface Combatants, Amphibious Ships, Carriers, Auxiliary Ships and other emerging program requirements. -Collaborate with Warfare Systems design experts to perform continuous Warfare Systems analysis at the ship and fleet level. Warfare Systems effectiveness assessment tools will be continually developed and enhanced as required to address future concepts and to incorporate improvements in information technology systems. Additionally, collaboration with aircraft, C4ISR, and networks by continuing dialog and collaboration between NAVSEA, NAVAIR, and SPAWAR systems commands will refine fleet level requirements. -Refine platform concept stage cost analysis tools to predict costs better in areas where weight-based algorithms may not be appropriate. It will continually enhance tools to estimate total ownership costs more accurately at the ship and weapons system concept development stage. Conduct cost estimates in support of future concept design exploration, CBA, and AoA efforts. Further develop Cost Estimating Relationships (CERs) to accommodate emerging technologies incorporated in future platforms. Develop cost estimating tools which incorporate emerging technologies applicable to future platforms. -Conduct future force structure concept formulation. Fleet synthesis and analysis will be conducted, which includes capabilities requirements, platform design and cost and quantitative tracking of the long-term evolution of the fleet as new platforms are introduced and old ones are retired. Among the areas to the examined are interoperability concepts, force architecture impact studies, Long Range Shipbuilding Schedule (LRSS) support, and operational employment concept studies. -Complete CBA's for undergraduate flight training and surface connector replacement, and commence CBA's for candidate systems such as neutralization of sea mines in the near-surface zone and the active RF free-fall expendable decoy. Expand warfighting gap assessments to address interaction of mission area kill chain platforms, sensors, and weapons in a system-of-system construct. Provide analysis support for development of the Inegrated Sponsor Program Guidance to Develop the Force Direction.			
Title: Joint Mission Assessment Studies	5.318	2.735	4.249
Articles:	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 2221. / *JT Mission Assessment Studies*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Description: CBA - The CBA is the JCIDS analysis process that includes three phases: the FAA, the FNA, and the FSA. The results of the CBA are used to develop a joint capabilities document (based on the FAA and FNA) or initial capabilities document (based on the full analysis). CBA funding provides the resource sponsors the means to develop the analytic underpinning required by Chairman of the Joint Chiefs of Staff Instruction 3170.01G to support the determination of Naval war fighting capabilities and force structure needed to support the JROC/JCIDS requirements validation process and to inform Program Objective Memorandum programming decisions. ***FY 2013 Accomplishments:*** Continued FY12 CBA efforts. Provide analysis support for development of the Integrated Sponsor Program supporting Guidance to Develop the Force Direction. ***FY 2014 Plans:*** Continue CBA's for off-board data transfer for mine warfare systems, Navy salvage, adversary aircraft, and underwater breathing apparatus. Commence CBA for surface connector replacement and undergraduate flight training. ***FY 2015 Plans:*** Complete CBA's for undergraduate flight training and and surface connector replacement, and commence CBA's for candidate systems such as neutralization of sea mines in the near-surface zone and the active RF free-fall expendable decoy. Expand warfighting gap assessments to address interaction of mission area kill chain platforms, sensors, and weapons in a system-of-system construct.			
Accomplishments/Planned Programs Subtotals	10.765	23.012	24.912

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A.
N/A
N/A

E. Performance Metrics

The overall goal is to conduct analysis to support the Navy decisions needed to turn strategy and guidance into the Fleet needed within acceptable risk. The May 2007 revision of the Joint Chiefs of Staff's Joint Capabilities Integration and Development System (JCIDS) instruction (CJCSI 3170.01F) requires a Capabilities-Based

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 2221. / *JT Mission Assessment Studies*

Assessment (CBA) to assess new requirements. A CBA instruction has been developed by the Chief Navy Office's warfare integration office that prescribes a procedure and structure to this warfighting requirements generation process (JCIDS). A CBA is required to address and validate capability shortfalls or gaps as defined by combatant commanders. It is an analytical process that includes three phases: the Functional Area Analysis, the Functional Needs Analysis, and the Functional Solution Analysis. This process is designed to address future warfighting requirements and analysis needs and improve the quality of Analysis of Alternatives. CBA supports Navy programming decisions and provides the means to develop the analytic underpinning to support the determination of Naval capabilities and force structure recapitalization investments required to fulfill the Maritime Strategy.

The overall goal is to conduct analysis to support the Navy decisions needed to turn strategy and guidance into the Fleet needed within acceptable risk. The May 2007 revision of the Joint Chiefs of Staff's Joint Capabilities Integration and Development System (JCIDS) instruction (CJCSI 3170.01F) requires a Capabilities-Based Assessment (CBA) to assess new requirements. A CBA instruction has been developed by the Chief Navy Office's warfare integration office that prescribes a procedure and structure to this warfighting requirements generation process (JCIDS). A CBA is required to address and validate capability shortfalls or gaps as defined by combatant commanders. It is an analytical process that includes three phases: the Functional Area Analysis, the Functional Needs Analysis, and the Functional Solution Analysis. This process is designed to address future warfighting requirements and analysis needs and improve the quality of Analysis of Alternatives. CBA supports Navy programming decisions and provides the means to develop the analytic underpinning to support the determination of Naval capabilities and force structure recapitalization investments required to fulfill the Maritime Strategy.

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-The overall goal is to conduct analysis to support the Navy decisions needed to turn strategy and guidance into the Fleet needed within acceptable risk. METRIC: Risks are balanced
across capability that delivers the right capabilities within the resources available to Navy. Navy Assessment Program supports the development of platform specific studies and
Capability-Based Assessments, an analytical effort resulting in Functional Area Analysis, Functional Needs Analysis, and Functional Solutions Analysis. Efforts provide added
analytical rigor relative to program's maturation under the Joint Capabilities, Integration, and Development System and support warfare integration initiatives.

-Navy Standard Scenarios with Warfare and Warfare Support Analyses: Goal: To ensure that essential elements of warfare analyses, including scenarios, operational concepts, tactics,
capabilities of platforms and systems (for Navy, Joint, coalition and threat forces), key assumptions and input data are defined and traceable to government approved source material.
METRIC: Consistency with other ongoing analyses as directed, develop Measures of Performance and Measures of Effectiveness and recommend appropriate modeling/methodology to
support analysis. Models/methodology used reflect study objects, level of fidelity required and time constraints.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 2221. / *JT Mission Assessment Studies*

-Capability Based Assessments with Campaign Mission Analyses Analytical and Technical Support: Goal: To provide analyses and technical and engineering support including, but not
limited to, joint campaign analysis that examines the ability to counter a range of coordinated threat capabilities, high level tradeoffs between service capabilities, or impact of largescale
architecture, force structure of modernization decision; mission-level effectiveness analyses to determine system capabilities; analyses of alternative force structures to determine
ability to meet peacetime deployment or steady-state requirements and respond to transition to war and contingency operations; cost-effectiveness and analyses; Acquisition Category
Program Office and Systems Command assessments; and analyses of new technologies. METRIC: Develop analysis plans; determine proposed alternatives for analysis; and research
performance data on current and future threats, coalition and own force systems; perform technology investigations and forecasts; develop or obtain cost data for current or planned
systems; develop and use Cost Estimating Relationships to determine cost for conceptual or future systems for which no cost data is available; identify analysis assumptions, limitations
and uncertainties; use established models or develop new models or methodologies to perform analyses; and interpret and analyze results.
-Campaign Analysis-Modeling and Simulation: Goal: Develop and maintain a standard set of models for use in warfare analyses and analyses performed to support Planning Strategy
that work at the campaign, mission, and engagement levels. METRIC: A combination of model design statements, model study reports, system specifications, updated model reports,
model/database documents, model verification and validation plans, code, and Plan of Action and Milestones reports developed or updated that encompass all aspects of Sea Power 21
to include at a minimum air, land, sea, and Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance.
-Joint Assessments and Integration and Investment Strategy Development: Goal: Conduct assessments to determine shortfalls and redundancies in existing or planned operational or
support capabilities; identify key issues including deficiencies in war fighting capability; determine priorities for needed capabilities; assesses affordability of high payoff systems
and technologies; assess effectiveness and affordability of alternative force structures; and formulate investment strategies. Continue development and refinement of Navy program
planning to determine the war fighting wholeness and cost effectiveness of alternative Navy strategies. METRIC: Identify shortfalls and redundancies in existing or planned capabilities.
Determine the impact of variations in warfare systems and architectures in threat, U.S. and combined forces and strategies. Provide engineering and analytic support for the assessment
and transition of technology for use in the Investment Strategy.
-World Class Modeling (WCM), Simulation, and Capability Analysis: Goal: Development of new models or model upgrades to meet requirements identified by the WCM requirements

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 2221. / *JT Mission Assessment Studies*

process that support the Program Objective Memorandum decision-making process, with the goal of creating a state-of-the art set of models for use in warfare and warfare support
analyses. METRIC: Develop model design documents, model study reports, system specifications, updated model reports, model documentation, model verification and validation
plans, code, Plan of Action and Milestones reports, and technical reports.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / *Management, Technical & Intl Supt*	Project (Number/Name) 2801 / *Anti-Tamper*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2801: *Anti-Tamper*	-	-	-	1.374	-	1.374	1.374	1.374	1.374	1.374	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

Note

Realignment from PU 3039 to 2801 starting in FY15.

A. Mission Description and Budget Item Justification

Perform as the Navy Technical Process Owner for the Anti-Tamper (AT) systems engineering activity that is intended to prevent and/or delay the exploitation of critical technologies in U.S. Systems. Manage the research, design, development, implementation, and testing of AT measures. Coordinate with Department of Defense AT Executive Agent and implement Department of Navy AT policy in conjunction with the Deputy Assistant Secretary Navy. Manage Security and Information Security requirements commensurate with the requirements of ALL Navy Programs throughout their lifecycles.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Anti Tamper	-	-	1.374
Articles:	-	-	-
FY 2013 Accomplishments: N/A			
FY 2014 Plans: N/A			
FY 2015 Plans: Champion new technology with a focused and disciplined approach of development, assessment, evaluation, and transition to meet Navy program AT requirements. Maintain role in Anti-Tamper policy development for implementation and execution by the SYSCOMs incorporating Navy program AT requirements. Provide secure facilities, networks, computers, video/telephone conference and support personnel for collateral and Special Program operational environments to enable Anti-Tamper implementation and execution by SYSCOM's programs, incorporating AT requirements.			
Accomplishments/Planned Programs Subtotals	-	-	1.374

C. Other Program Funding Summary ($ in Millions)

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 2801 / *Anti-Tamper*

C. Other Program Funding Summary ($ in Millions)

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Manage the research, design, development, implementation and testing of Anti Tamper measures for the Department of the Navy. Manage Information Security for all navy programs throughout their lifecycles.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605853N / *Management, Technical & Intl Supt*				Project (Number/Name) 3025 / *Mid-Range Financial Improvement Plans*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
3025: *Mid-Range Financial Improvement Plans*	-	0.573	0.879	0.717	-	0.717	0.670	0.705	0.717	0.738	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

One of DoD's and Navy's priority goals is to gain a clean and auditable financial statement. The Office of the Secretary of Defense (OSD) Comptroller, in his 8 August 2003 memorandum, directed the Military Departments and Defense Agencies, in coordination with the Defense Finance and Accounting Service (DFAS), to prepare a comprehensive mid-range financial improvement plan to identify measurable steps to ensure each material line is auditable, and ensure all major deficiencies are resolved.

This project supports the Research, Development, Test and Evaluation, Navy (RDT&E,N) portion of the larger DoD and Navy-wide effort to implement the Financial Improvement Plan (FIP). Corrective actions required to resolve known deficiencies and determine resource requirements (people and systems) are being identified.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Mid-Range Financial Improvement Plans	0.573	0.879	0.717
Articles:	-	-	-
Description: Increase from FY13 to FY14 due to increased effort for audit assertion. ***FY 2013 Accomplishments:*** - Continued to participate in the Navy Financial Management Office (FMO) Business Process Standardization (BPS) initiatives. - Continued to participate in the FMO segment testing which includes Reimbursable Work Order (RWO) Grantor, RWO-Performer, transportation of people, CivPay, and Funds Distribution and Reporting for the Navy's assertion of Audit readiness. - Continued eliminating problem disbursements older than 120 days, narrowing to 60 days, and potentially narrowing even further. - Continued performing obligation validations ensuring accuracy. ***FY 2014 Plans:*** - Continue all efforts of FY13. ***FY 2015 Plans:*** - Continue all efforts of FY14.			
Accomplishments/Planned Programs Subtotals	0.573	0.879	0.717

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 3025 / *Mid-Range Financial Improvement Plans*

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Financial records are compliant in accordance with the Chief Financial Officers Act.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / *Management, Technical & Intl Supt*	Project (Number/Name) 3039 / *CHENG*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3039: *CHENG*	-	12.542	18.631	13.241	-	13.241	13.937	14.296	14.605	14.970	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

Note

Realignment from project 3039 to 2801 starting in FY15.

A. Mission Description and Budget Item Justification

Develops and implements architecture-based systems engineering processes, methods and tools that assure integrated and interoperable systems are delivered to the fleet. This project provides the mission-oriented technical basis for implementing capability-based acquisition management within the Navy to engineer and field Navy and Marine Corps combat systems, weapon systems, and command, control, communications, computers and intelligence (C4I) programs that must operate as family-of-systems (FoS) or system-of-systems (SoS). The focus of this project is on identifying the functions, relationships, and connections between systems at both the force and unit level and across warfare mission areas, and encompasses three key elements: Systems Engineering to provide the framework for making engineering decisions by war fighting capability at the FoS/SoS level and supports consistent engineering and investment decision-making across Navy and Marine Corps programs within capability-based acquisition portfolios. Naval Collaborative Engineering Environment development and implementation as a DON enterprise resource for Naval integration and interoperability information to enable collaboration and decision support among Fleet organizations, Program Executive Offices, Program Managers, Systems Commands, prime contractors, Resource/Warfare Sponsors and Comptroller organizations. Standards, Policies and Guidelines engineering and technical staff to implement DoN, Office of the Secretary of Defense (OSD) and Joint integration and interoperability initiatives.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Standards, Policy, and Guidelines	3.253	4.982	3.984
Articles:	-	-	-
Description: Standards, Policy and Guidelines conducts and provides policy analysis, and studies, Policy issue identification and resolution. Additionally, management and execution of the Information Support Plan (ISP) process for the DON. Assists program offices with ISP planning & development guidance and assistance, conducts ISP reviews; provides comments/recommendations. Liaison with DoD, Joint Staff, and Other Service acquisition/Systems Engineering			
FY 2013 Accomplishments: - Assisted 2 Program Offices (PMO's) with Net Ready Key Performance Parameters (NR KPP) Development - Provided policy analyses and assessment to the Joint Mission Threat Development and Documentation Process Guide, NAVSEAINST 4121.3B (joint SYSCOM instruction: Naval SYSCOM Technical Standards Policy); DoDI 5000.02 revision; final review of DODI 8330.aa (Interoperability of Information Technology			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 3039 / *CHENG*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Supported 11 Program Offices with ISP planning and development assistance - Reviewed 2 USN and 23 DoD/Other Service ISPs with an additional 8 ISP reviews in process ***FY 2014 Plans:*** - Continue policy analysis, studies and guidance to include issue identification and resolution - Continue Program Office ISP planning and development support - Continue ISP Reviews ***FY 2015 Plans:*** -Continuation of FY14 efforts and initiatives			
Title: Naval System Engineering Resource Center (NSERC) ***Articles:*** ***Description:*** Development and implementation of the Navy Enterprise Architecture Repository (NEAR) as a DON enterprise resource for Naval integration and interoperability information to enable collaboration and decision support among Fleet organizations, Program Executive Offices, Program Managers, Systems Commands, prime contractors, Resource/Warfare Sponsors and Comptroller organizations. ***FY 2013 Accomplishments:*** - Deliverered Phase I of NEAR - Developed architecture design training using NSERC to support systems engineering architecture development process - Supported Naval Enterprise Capabilities by translating operational requirements to system performance requirements using architecture tools in the SE process in compliance with DoDAF 2.0; the NR KPP CJCSI 6212.01F and JCIDS directive 3170.01E - Provided common approach to standardize the methods, tools and ability to develop accurate and cost effective DoDAF architecture products for capability assessment and design of Weapon systems ***FY 2014 Plans:*** - Continue Phased Delivery (Phase II) of NEAR ***FY 2015 Plans:*** - Continue Phased Delivery (Phase III) of NEAR	1.909 -	2.805 -	2.213 -
Title: Systems Engineering ***Articles:***	7.380 -	10.844 -	7.044 -

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 3039 / *CHENG*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Description: Provide the framework for making engineering decisions by war fighting capability at the Family of Systems/System of Systems level and supports consistent engineering and investment decision making across Navy and Marine Corps programs within-capability based acquisition portfolio ***FY 2013 Accomplishments:*** - Incorporated MLA&E process into the System of Systems (SoS) Guidebook - Completed the Knowledge, Skills and Abilities (KSA) listing for the SE Human Resources Competency Model - Delivered the Navy's Systems Engineering Health Assessment (Annual Requirement) to DoD. - Revised the Systems Engineering Technical Review (SETR)/Gate Review I&I Criteria - Provided Program Office assistance with Systems Engineering Plan (SEP) reviews. Completed the review of 5 Program Office SEP's. - Initiated the Reserve Component Corrosion Prevention and Control Initiative. - Held 3 Anti-Tamper (AT) planning Summits with the other services and industry to help shape AT policy to protect defense technology development and acquisition. ***FY 2014 Plans:*** - Complete and Deliver the Systems Engineering Human Resource Competency Model - Continue Corrosion Prevention and Control initiatives - Continue Anti-Tamper policy development for implementation and execution by the SYSCOMs - Continue I&I initiatives - Continue Program Office SEP review and support ***FY 2015 Plans:*** - Continue Corrosion Prevention and Control initiatives - Continue Anti-Tamper policy development for implementation and execution by the SYSCOMs - Complete and transition I&I initatives to OPNAV/Fleet components - Continue Program Office SEP review and support			
Accomplishments/Planned Programs Subtotals	12.542	18.631	13.241

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 3039 / *CHENG*

D. Acquisition Strategy

N/A

E. Performance Metrics

Standards, Policy, and Guidelines: - Alignment of SPGs across the Naval Enterprise and with OSD and Joint organizations will support standard acquisition implementation and improve compatibility and interoperability thereby lowering development and maintenance costs across programs

- Aggregating systems for the purpose of conducting certification and accreditation and consolidating mandatory documentation for aggregations versus individual systems will optimize (cost tradeoffs and focus on high priority issues) certifications, reduce paperwork and associated costs, and put attention on systems engineering, IA, and ISPs for systems in their aggregated operational state vice just the individual system development state. Document costs for major programs are $1 to $3.5 Million per system. An aggregation may include 15 or more systems with four or more being major systems. Aggregation presents a high potential for Return on Investment.

- NR-KPP processes will clarify requirements and capabilities (including their metrics) that acquisition programs need to develop systems. This clarification will eliminate guesses in terms of operational needs, thereby reducing the risk of program failure and reducing program and life-cycle costs.

Naval Collaborative Engineering Environment (NCEE): Number of customers/ users.

Percentage of time the tool is available.

Number of tools integrated into the system.

Systems Engineering:

Reviews and comment on all ACAT I system engineering plans presented to ASN (RDA) within 30 days of receipt to provide system engineering and system of system system engineering guidance to the Acquisition Program Manager.

Review 80% of the MDAP Gate reviews held in FY10 to provide software acquisition process improvement guidance, system of systems engineering guidance and integration and interoperability management guidance to the Acquisition Program Managers.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605853N / *Management, Technical & Intl Supt*				Project (Number/Name) 3330 / *Naval Research Laboratory (NRL) Facilities Modernization*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
3330: *Naval Research Laboratory (NRL) Facilities Modernization*	-	2.191	2.393	1.611	-	1.611	15.214	15.617	15.896	16.205	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This program has been established to provide a systematic and planned approach to improve vital in-house science and technology (S&T) laboratory facilities which are reaching or have reached critical stages of deterioration. The program includes restoration and modernization (R&M) initiatives for about 350,000 net square feet, where the average age of the buildings is 67 years old.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: NRL Facilities Modernization	2.191	2.393	1.611
Articles:	-	-	-
Description: Critical Science and Technology research cannot be sustained or succeed in deteriorated facilities. World class research can only be accomplished in facilities that are at a minimum "adequate", but preferably "state-of-the-art." Due to their advanced age and deterioration, funds are planned to restore/modernize various laboratory facilities at the Naval Research Laboratory. FY15 funding decrease is due to programmatic realignments to other Navy priorities. ***FY 2013 Accomplishments:*** - Continued the modernization efforts for the electronics science and technology laboratories, equipment, and specialized facilities. ***FY 2014 Plans:*** - Continue all efforts of FY13. ***FY 2015 Plans:*** - Continue all efforts of FY14.			
Accomplishments/Planned Programs Subtotals	2.191	2.393	1.611

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 3330 / *Naval Research Laboratory (NRL) Facilities Modernization*

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

None

E. Performance Metrics

Restoration and modernization of the laboratory facilities will begin in a phased approach until completion.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / *Management, Technical & Intl Supt*	Project (Number/Name) 3363 / *PACOM Initiative*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3363: *PACOM Initiative*	-	-	7.950	7.945	-	7.945	14.945	14.940	14.940	15.224	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

Note

This funding is for a classified effort.

A. Mission Description and Budget Item Justification

This funding is for a classified effort.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: PACOM Initiative	-	7.950	7.945
Articles:	-	-	-
FY 2013 Accomplishments: N/A			
FY 2014 Plans: This is a classified initiative.			
FY 2015 Plans: This is a classified initiative.			
Accomplishments/Planned Programs Subtotals	-	7.950	7.945

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

This funding is for a classified effort.

E. Performance Metrics

This funding is for a classified effort.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / *Management, Technical & Intl Supt*	Project (Number/Name) 3381 / *JIE Initiiative*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3381: *JIE Initiiative*	-	-	-	8.900	-	8.900	-	-	-	-	-	8.900
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Joint Information Environment (JIE) initiative provides the supporting IT capability framework comprised of shared information technology infrastructure, enterprise services, interoperability with coalition partners and a single security architecture that enables mission commanders to execute mission partnered operations. JIE provides the U.S. configuration controls necessary for enterprise capabilities. By utilizing a U.S enterprise-wide secure Identity and Access Management system, JIE ensures that authorized users at the right classification level gain access to only the data and services they are entitled. The continued development and refinement of a Joint Information Environment will provide for a significant improvement in data sharing within, and between, coalition maritime elements.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Strategies for Defense of Data	-	-	8.900
Articles:	-	-	-
Description: The Joint Information Environment (JIE) initiative provides the supporting IT capability framework comprised of shared information technology infrastructure, enterprise services, interoperability with coalition partners and a single security architecture that enables mission commanders to execute mission partnered operations. JIE provides the U.S. configuration controls necessary for enterprise capabilities. By utilizing a U.S enterprise-wide secure Identity and Access Management system, JIE ensures that authorized users at the right classification level gain access to only the data and services they are entitled. The continued development and refinement of a Joint Information Environment will provide for a significant improvement in data sharing within, and between, coalition maritime elements. ***FY 2013 Accomplishments:*** N/A ***FY 2014 Plans:*** N/A ***FY 2015 Plans:*** Develop and integrate analytic methodologies and supporting elements that address cyber capabilities, innovations, and strategic engagements in order to produce a strategy for a more defensible and secure cyber architecture specifically designed for U.S. Pacific Command, joint, and coalition mission partners.			
Accomplishments/Planned Programs Subtotals	-	-	8.900

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 3381 / *JIE Initiiative*

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Utilize an existing Army contract to develop capabilities to identify and provide risk management for critical infrastructure system vulnerabilities as a result of cyber based attacks in the U.S. Pacific Command area of responsibility. This information is for presentation to the Office of the Under Secretary of Defense for Intelligence (OUSD(I)).

E. Performance Metrics

Develop scenario based, interactive exercise simulations to supplement existing table top, command post, and full scale incident response training and exercise programs. The completion date for the strategy and cyber architecture recommendations is September 2015.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / *Management, Technical & Intl Supt*	Project (Number/Name) 9999 / *Congressional Adds*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
9999: *Congressional Adds*	-	12.457	7.000	-	-	-	-	-	-	-	-	19.457
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Funds execution of DoD's Executive Agent (EA) for Printed Circuit Board (PrCB) Technologies as established by the 2009 National Defense Authorization Act (Section 256, PL 110-417). The primary deliverable from this effort will be a PrCB and Interconnect Technology Roadmap, or strategic plan, identifying domestic technology gaps, future research and development needs, and any policy changes required to ensure that the DoD has access to PrCB manufacturing capabilities and technical expertise necessary to meet future military requirements. As mandated, the EA will also address DoD PrCB supply chain issues, including diversity and vulnerabilities, and develop trustworthiness requirements for PrCBs used in defense systems.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014
Congressional Add: Printed Circuit Board Executive Agent	12.457	7.000
FY 2013 Accomplishments: - Complete formalization of the Executive Agent role in accordance with DoD 5101.1 - Establish PrCB EA Advisory Council (DoD, industry, and academia) - Identify other roles and responsibilities associated with the PrCB Technology program (per SECDEF Directive) - Establish framework for Strategic Systems Program demonstration of PRCB initiatives resulting from EA mandates - Initiate domestic technology gap analysis & identification of future R&D needs - Initiate assessment of vulnerabilities, trustworthiness, and diversity of the PRCB supply chain - Initiate joint common strategic weapons systems study/research and development to demonstrate "trusted" PRCB principles - Initiate establishment of strategic electronic parts commonality framework and strategic parts library to reduce program risk and costs - Initiate development of PRCB and interconnect technology roadmap/strategic plan		
FY 2014 Plans: - Complete domestic technology gap analysis & identification of future R&D needs - Complete assessment of vulnerabilities, trustworthiness, and diversity of the PrCB supply chain - Complete joint common strategic weapons systems study/research and development to demonstrate "trusted" PrCB principles and implement proven "trust" measures		

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605853N / *Management, Technical & Intl Supt*	**Project (Number/Name)** 9999 / *Congressional Adds*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014
- Complete establishment of strategic electronic parts commonality framework and strategic parts library to reduce program risk and costs - Complete development of PRCB and interconnect technology roadmap/strategic plan		
Congressional Adds Subtotals	12.457	7.000

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

In 2005, the National Academies national research council (NRC) conducted a study and subsequently issued a report relating to manufacturing trends in printed circuit technology. Within that report, the NRC detailed four critical issue areas that needed to be addressed in the interest of national security. Those issue areas included; Trust, Supply Chain, Organic (DoD) Capability Sustainment, and Technology Development.

Intense global competition in the Printed Circuit Board (PrCB) industry has resulted in a significant reduction in the number of United States PrCB companies, leaving the domestic PrCB industrial base "fragile" and progressively declining in capability and health. Implementation of the strategies developed by the EA for PrCB Technologies will proactively ensure that the U.S. PrCB industry is capable of supporting future DoD electronics requirements. The strategic plan is expected to indentify technology gaps and research and development needs, as well as identify and recommend policy changes.

In addition to benefiting DoD by ensuring access to leading edge PrCB technology, it is expected that the EA program will help the struggling domestic PrCB industry by indentifying future technology research and development needs and securing the domestic military market.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy	Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0605856N *I Strategic Technical Support*

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	2.935	3.221	3.237	-	3.237	3.285	3.372	3.431	3.496	Continuing	Continuing
0128: *Mgmt/Tech Supt Strategic*	0.000	1.138	1.155	1.168	-	1.168	1.191	1.225	1.247	1.270	Continuing	Continuing
1038: *Acoustic & Non-Acoustic Analysis Supt*	0.000	1.797	2.066	2.069	-	2.069	2.094	2.147	2.184	2.226	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This program element supports technical studies and analyses as directed by the Director for Submarine Warfare to support major policy and procurement decisions. This program is divided into two elements to support decision making in the areas of submarine and antisubmarine warfare and undersea surveillance.

B. Program Change Summary ($ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	3.306	3.221	3.237	-	3.237
Current President's Budget	2.935	3.221	3.237	-	3.237
Total Adjustments	-0.371	-	-	-	-
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.096	-			
• Rate/Misc Adjustments	-	-	-	-	-
• Congressional General Reductions Adjustments	-0.275	-	-	-	-

Change Summary Explanation

Technical: N/A

Schedule: N/A

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605856N / *Strategic Technical Support*	Project (Number/Name) 0128 / *Mgmt/Tech Supt Strategic*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0128: *Mgmt/Tech Supt Strategic*	-	1.138	1.155	1.168	-	1.168	1.191	1.225	1.247	1.270	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project provides analytical support to the Director, Submarine Warfare Division as a basis for major policy, planning and acquisition program decisions. It supports the development of the Submarine Force strategic vision to guide research and development investment strategy and future planning. Additionally, this line supports studies in the area of submarine and undersea surveillance missions, force structure, payloads and sensors and force employment.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: MANAGEMENT AND TECHNICAL SUPPORT, STRATEGIC	1.138	1.155	1.168
Articles:	-	-	-
FY 2013 Accomplishments: - Continued to examine specific applications for submarine mine countermeasures and develop a strategy for ensuring submarine access to contested areas of the world. - Continued to assess the strategic deterrence (conventional and nuclear) force structure, security, and capability in the Navy. - Continued to perform an in-depth review of undersea warfare research and development requirements, past and present, and propose an investment strategy to maximize future capabilities. - Continued to assess implications of current and developing technologies on undersea warfare in both near and far term systems and develop strategic concepts to guide future acquisitions through partnership with the Naval Postgraduate School. - Continued to assess the submarine forces capabilities in view of emerging technologies and changes in joint and naval strategies. This will be used to develop capability based ideas and concepts to guide research and development and science and technology efforts.			
FY 2014 Plans: - Continue all efforts of FY13.			
FY 2015 Plans: - Continue all efforts of FY14.			
Accomplishments/Planned Programs Subtotals	1.138	1.155	1.168

C. Other Program Funding Summary ($ in Millions)

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605856N / *Strategic Technical Support*	**Project (Number/Name)** 0128 / *Mgmt/Tech Supt Strategic*

C. Other Program Funding Summary ($ in Millions)

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

This project supports studies in the area of undersea surveillance missions, sensor system, payloads, force employment, communications, acoustic performance prediction systems, environmental and medical effects of acoustics systems including installations/removals, operational security and future threat analysis. Project success is measured through analytical results and constant interaction with the contractors that enable the Director for Submarine Warfare to make decisions effectively.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605856N / *Strategic Technical Support*	Project (Number/Name) 1038 / *Acoustic & Non-Acoustic Analysis Supt*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
1038: *Acoustic & Non-Acoustic Analysis Supt*	-	1.797	2.066	2.069	-	2.069	2.094	2.147	2.184	2.226	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project provides analytical support to the Director, Intelligence, Surveillance, and Reconnaissance (ISR) Division, OPNAV N2N6F2 and the Integrated Undersea Surveillance System (IUSS) Branch as a basis for major policy, planning, and acquisition program decisions. It supports studies in the area of undersea surveillance missions, sensor system communications, and acoustic performance prediction systems, environmental and medical effects of acoustic systems, operational security, and future threat analysis. Supports synthetic mission lay down simulations for IUSS strategic planning and resource allocation. Supports continued development and documentation of architecture for future undersea surveillance capabilities and systems. Supports studies to determine long-term impact of IUSS active sensors on marine animals and development of Surveillance Towed Array Sensor system (SURTASS) Low Frequency Active (LFA), Compact LFA (CLFA) and the Supplemental Environmental Impact Statement (SEIS).

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: ACOUSTIC AND NON-ACOUSTIC ANALYSIS SUPPORT	1.797	2.066	2.069
Articles:	-	-	-
FY 2013 Accomplishments: - Continued environmental compliance requirements and actions pertinent to Compact Low Frequency Active (CLFA) at-sea testing, training and operations. - Continued the SURTASS Engineering Measurements Program (SURTASS EMP) to provide for post-mission engineering analysis of SURTASS acoustic data. - Continued environmental compliance support for issuance of annual Letters of Authorization (LOA) under the Marine Mammal Protection Act (MMPA) and required quarterly reporting for SURTASS LFA vessels. - Continued analyses to estimate the long-term effects of SURTASS LFA on marine mammals. - Continued Integrated Undersea Surveillance System (IUSS) Engineering analytic support to IUSS Capabilities Assessment follow on study. - Provided IUSS Engineering analytic support to OPNAV for hypothetical systems deployment performance assessments. - Continued monitoring of undersea technology for application for future undersea surveillance capabilities.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605856N / *Strategic Technical Support*	**Project (Number/Name)** 1038 / *Acoustic & Non-Acoustic Analysis Supt*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Continued IUSS Engineering enabling capabilities support to Distributive Systems Group (DSG) to further Shallow Water Surveillance System (SWSS) activities. ***FY 2014 Plans:*** - Continue all efforts of FY13. ***FY 2015 Plans:*** - Continue all efforts of FY14.			
Accomplishments/Planned Programs Subtotals	1.797	2.066	2.069

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

This project supports studies in the area of undersea surveillance missions, sensor systems, and acoustic performance prediction systems, environmental and medical effects of acoustic systems, and future threat analysis. In addition, it provides research and reports necessary to support SURTASS LFA and Compact Low Frequency Active (CLFA) sonar compliance with Federal, State and Local environmental laws required for continued SURTASS LFA and CLFA operations, analysis of undersea technology for application to future undersea surveillance capabilities, and assessment of current and future IUSS warfare areas and potential allied Navy contributions. To this end, research is conducted by prominent educational and research institutions recognized for their expertise in the area, and by marine mammal biologists with extensive background in specific areas of underwater acoustics. This approach is deemed the most cost effective and efficient course of action for the Navy.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy* / BA 6: *RDT&E Management Support*					R-1 Program Element (Number/Name) PE 0605861N / *RDT&E Science & Tech Mgmt*							
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
Total Program Element	0.000	64.317	72.725	73.033	-	73.033	74.033	74.192	73.914	75.482	Continuing	Continuing
0135: *ONR Science & Technology Mgmt*	0.000	62.947	65.694	65.008	-	65.008	65.898	65.905	65.482	66.859	Continuing	Continuing
2353: *DFAS Billings*	0.000	1.299	1.423	2.332	-	2.332	2.368	2.442	2.505	2.567	Continuing	Continuing
3234: *Office of Naval Research - N-ERP*	0.000	0.071	1.113	1.160	-	1.160	1.178	1.212	1.239	1.268	Continuing	Continuing
3364: *ONR Global Management*	0.000	-	4.495	4.533	-	4.533	4.589	4.633	4.688	4.788	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This program element (PE) covers Office of Naval Research (ONR) corporate expenses including salaries, Information Technology (IT), and some of the day-to-day logistical costs. The vast majority of these items represent fixed costs associated with Scientists and Engineers supporting the Navy's Science and Technology (S&T) Programs.

The Defense Finance and Accounting Service (DFAS) Billings project 2353 funds accounting services provided to ONR and Navy Research and Development (R&D) activities.

B. Program Change Summary ($ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	70.302	72.725	73.634	-	73.634
Current President's Budget	64.317	72.725	73.033	-	73.033
Total Adjustments	-5.985	-	-0.601	-	-0.601
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	-0.001	-	-0.601	-	-0.601
• Congressional General Reductions Adjustments	-5.984	-	-	-	-

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy	Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy* / BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0605861N / *RDT&E Science & Tech Mgmt*

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605861N / *RDT&E Science & Tech Mgmt*	Project (Number/Name) 0135 / *ONR Science & Technology Mgmt*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0135: *ONR Science & Technology Mgmt*	-	62.947	65.694	65.008	-	65.008	65.898	65.905	65.482	66.859	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project supports ONR leadership, management and direction for the Naval S&T program. This project funds ONR HQ salaries, communications, and other fixed costs. ONR sponsors scientific advances, which lead to Future Naval Capabilities (FNCs), supporting the Fleet's ability to operate from a position of technological superiority. Functions performed include (1) scientific and technical direction of the nationwide 6.1 basic research program with colleges, universities, non-profit organizations and Naval Laboratories and Warfare Centers; (2) scientific and technical direction of the 6.2 applied research program through the Naval R&D laboratories and Warfare Centers and industry; (3) scientific and technical direction of the Naval 6.3 advanced technology development program through the Navy's R&D laboratories, Warfare Centers and industry; (4) management, resource formulation, program assessment, and contract negotiation/administration of the Navy basic research, applied research and advanced technology development program; and (5) coordination of the Navy's Technology Base program within the context of total DoD/Government (e.g., National Science Foundation, National Academy of Sciences) R&D initiatives in order to maximize scientific advances. This project also supports ONR management and direction for the following Navy-wide programs: Small Business Innovation Research, Naval Research Advisory Committee, Navy Patent Program, Historically Black Colleges and Universities/Minority Institutions Program, Navy Manufacturing Technology Program and the Ballistic Missile Submarine Nuclear (SSBN) Security Technology Program.

Additionally, this project funds ONR field salaries, communications, and other fixed costs. Functions performed support ONR's Navy-wide responsibilities in the negotiation and establishment of indirect cost rates for DoD-assigned universities and performance of contract administration for all DoD contracts/grants at all colleges and universities.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: S&T MANAGEMENT SUPPORT	62.947	65.694	65.008
Articles:	-	-	-
Description: This project provides for basic costs of ONR Headquarters in support of the entire Navy S&T program. Most all the funds in this project are fixed costs, such as salaries and communications. Specifically, it pays the salaries of Scientific and Engineering and corporate business personnel who direct the execution of the Navy's basic research, applied research, and advanced technology development programs at the nation's universities/colleges, Navy laboratories, Warfare Centers, and private industry.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605861N / *RDT&E Science & Tech Mgmt*	**Project (Number/Name)** 0135 / *ONR Science & Technology Mgmt*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
This project also provides for basic costs of ONR's field activities to include fixed costs, such as salaries and communications. ***FY 2013 Accomplishments:*** - This project provided for all basic costs of ONR Headquarters in support of the entire Navy S&T program. Most all the funds in this project are fixed costs, such as salaries, and communications. Specifically, it pays the salaries of Scientific and Engineering and corporate business personnel who direct the execution of the Navy's basic research, applied research, and advanced technology development programs at the nation's universities/colleges, Navy laboratories, Warfare Centers, and private industry. This project provided for all basic costs of ONR field activities in support of the entire Navy S&T program. ***FY 2014 Plans:*** - Continue all efforts of FY 2013. ***FY 2015 Plans:*** - Continue all efforts of FY 2014			
Accomplishments/Planned Programs Subtotals	62.947	65.694	65.008

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not applicable.

E. Performance Metrics

This PE funds operating costs for ONR's mission. Program performance is measured by attaining financial benchmarks for planned obligations vs. actual obligations and planned expenditures vs. actual expenditures.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605861N / *RDT&E Science & Tech Mgmt*				Project (Number/Name) 2353 / *DFAS Billings*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
2353: *DFAS Billings*	-	1.299	1.423	2.332	-	2.332	2.368	2.442	2.505	2.567	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project provides funding for accounting services provided to the Office of Naval Research and other Navy research and development activities by the Defense Finance and Accounting Service (DFAS).

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: TRANSACTIONS PROCESSED IN SUPPORT OF DON R&D	1.299	1.423	2.332
Articles:	-	-	-
Description: This project funds the DFAS bill for transactions processed in support of Department of the Navy R&D activities. Specific services include payroll, transportation, commercial invoices, travel, maintenance of trial balances, associated accounting and reporting.			
FY 2013 Accomplishments: - This project funded the DFAS bill for transactions processed in support of the Department of Navy R&D activities. Specific services include payroll, transportation, commercial invoices, travel, and maintenance of trial balances, associated accounting and reporting.			
FY 2014 Plans: - Continue all efforts of FY 2013.			
FY 2015 Plans: - Continue all efforts of FY 2014.			
Accomplishments/Planned Programs Subtotals	1.299	1.423	2.332

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not applicable.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605861N / *RDT&E Science & Tech Mgmt*	**Project (Number/Name)** 2353 / *DFAS Billings*

E. Performance Metrics

This PE funds operating costs for ONR's mission. Program performance is measured by attaining financial benchmarks for planned obligations vs. actual obligations and planned expenditures vs. actual expenditures.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605861N / *RDT&E Science & Tech Mgmt*				Project (Number/Name) 3234 / *Office of Naval Research - N-ERP*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
3234: *Office of Naval Research - N-ERP*	-	0.071	1.113	1.160	-	1.160	1.178	1.212	1.239	1.268	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project provides funding to support the site implementation costs for the Office of Naval Research transition to Navy's Enterprise Resource Planning (ERP) and to administratively track this continuing effort.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: OFFICE OF NAVAL RESEARCH NAVY ERP	0.071	1.113	1.160
Articles:	-	-	-
Description: N-ERP preparation for launch. ***FY 2013 Accomplishments:*** - Launched N-ERP; began N-ERP sustainment efforts. ***FY 2014 Plans:*** - Continue N-ERP sustainment efforts. ***FY 2015 Plans:*** - Continue N-ERP sustainment efforts.			
Accomplishments/Planned Programs Subtotals	0.071	1.113	1.160

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not applicable.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605861N / *RDT&E Science & Tech Mgmt*	**Project (Number/Name)** 3234 / *Office of Naval Research - N-ERP*

E. Performance Metrics

This PE funds operating costs for ONR's mission. Program performance is measured by attaining financial benchmarks for planned obligations vs. actual obligations and planned expenditures vs. actual expenditures.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605861N / *RDT&E Science & Tech Mgmt*	Project (Number/Name) 3364 / *ONR Global Management*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3364: *ONR Global Management*	-	-	4.495	4.533	-	4.533	4.589	4.633	4.688	4.788	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project funds ONR field salaries, communications, and other fixed costs. Functions performed support ONR Navy-wide responsibilities in the negotiation and establishment of indirect cost rates for DoD-assigned universities and performance of contract administration for all DoD contracts/grants at all colleges and universities.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: ONR Global	-	4.495	4.533
Articles:	-	-	-
FY 2013 Accomplishments: - This program was formerly funded in PE 0601153N. Funding was moved to have all ONR civilian personnel payroll resourced from the same PE (0605861N).			
FY 2014 Plans: - This project provides for all basic costs of ONR field activities in support of the entire Navy S&T program.			
FY 2015 Plans: - Continue all efforts of 2014.			
Accomplishments/Planned Programs Subtotals	-	4.495	4.533

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy	Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0605863N *I RDT&E Ship & Aircraft Support*

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	130.840	141.778	138.304	-	138.304	94.259	90.782	91.793	93.800	Continuing	Continuing
0568: *RDT&E Acft Flt Hours*	0.000	33.705	34.271	33.723	-	33.723	33.459	34.088	34.123	34.797	Continuing	Continuing
0569: *RDT&E Acft Supt*	0.000	34.812	36.157	35.980	-	35.980	36.035	36.799	37.072	37.797	Continuing	Continuing
2924: *SDTS*	0.000	7.979	8.332	7.575	-	7.575	7.525	7.235	7.326	7.491	Continuing	Continuing
3206: *T&E Enterprise*	0.000	54.344	63.018	61.026	-	61.026	17.240	12.660	13.272	13.715	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This continuing program provides support for ships and aircraft required to accommodate Research, Development, Test and Evaluation (RDT&E) of new systems. The RDT&E ship and aircraft inventory is required to adequately test new and improved weapon systems, stay current with threats, and increase warfighting capability of the fleet. The program provides integrated logistics support for aircraft at selected field activities; provides depot-level rework of aircraft, engines, and components for the Navy inventory of RDT&E aircraft; and provides support for ships and aircraft bailed to contractors for Navy RDT&E projects. Costs covered under this element include aircrew training and proficiency, fuel, supplies, equipment, repair, Aviation Depot Level Repairables, overhaul of ships and aircraft, as well as organizational, intermediate, and depot maintenance of ships and aircraft in the Navy RDT&E inventory.

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under RESEARCH, DEVELOPMENT, TEST and EVALUATION MANAGEMENT SUPPORT because it supports efforts directed toward sustaining or modernizing installations or operations required for general research, development, test and evaluation.

B. Program Change Summary ($ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	144.033	141.778	158.167	-	158.167
Current President's Budget	130.840	141.778	138.304	-	138.304
Total Adjustments	-13.193	-	-19.863	-	-19.863
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.317	-			
• Program Adjustments	-	-	2.821	-	2.821
• Rate/Misc Adjustments	-	-	-22.684	-	-22.684

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy				Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*		R-1 Program Element (Number/Name) PE 0605863N *I RDT&E Ship & Aircraft Support*		

• Congressional General Reductions Adjustments	-11.876	-	-	-	-

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605863N / *RDT&E Ship & Aircraft Support*	Project (Number/Name) 0568 / *RDT&E Acft Flt Hours*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0568: *RDT&E Acft Flt Hours*	-	33.705	34.271	33.723	-	33.723	33.459	34.088	34.123	34.797	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Research, Development, Test and Evaluation (RDT&E) Aircraft Flight Hours. This non-acquisition project supports direct flight hour costs, including organizational and intermediate level maintenance, as well as associated consumables, including petroleum, oil, and lubricants. These flight hours are used for post-maintenance test flights, aircrew training, and the accomplishment of pilot proficiency requirements (approximately 3 hours per pilot per month), in support of Research and Development programs at four Naval Air Systems Command/Naval Surface Warfare Center/Office of Naval Research flight activities.
JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under RESEARCH, DEVELOPMENT, TEST and EVALUATION MANAGEMENT SUPPORT because it supports efforts directed toward sustaining or modernizing installations or operations required for general research, development, test and evaluation.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: RDT&E Acft Flt Hours	33.705	34.271	33.723
Articles:	-	-	-
FY 2013 Accomplishments: Continued to provide planned organizational and intermediate-level maintenance, supply and petroleum, oil and lubricants in support of RDT&E aircraft operations.			
FY 2014 Plans: Continue to provide planned organizational and intermediate-level maintenance, supply and petroleum, oil and lubricants in support of RDT&E aircraft operations.			
FY 2015 Plans: Continue to provide planned organizational and intermediate-level maintenance, supply and petroleum, oil and lubricants in support of RDT&E aircraft operations.			
Accomplishments/Planned Programs Subtotals	33.705	34.271	33.723

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605863N / *RDT&E Ship & Aircraft Support*	**Project (Number/Name)** 0568 / *RDT&E Acft Flt Hours*

D. Acquisition Strategy

Not Applicable

E. Performance Metrics

This Research, Development, Test and Evaluation (RDT&E) Aircraft program supports approximately 3 hours per pilot per month of post-maintenance test flights, aircrew training and the accomplishment of pilot proficiency requirements.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605863N / *RDT&E Ship & Aircraft Support*	Project (Number/Name) 0569 / *RDT&E Acft Supt*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0569: *RDT&E Acft Supt*	-	34.812	36.157	35.980	-	35.980	36.035	36.799	37.072	37.797	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Research, Development, Test and Evaluation (RDT&E) Aircraft Support. This continuing project funds costs associated with RDT&E fixed and rotary wing aircraft which accommodate test and evaluation of aircraft/weapon systems. Testing aboard these platforms reduces the number of fleet units required to support RDT&E efforts. Included in these costs are Aviation Depot-Level Repairables (AVDLR), which are spare and replacement aircraft parts and components to support overhead maintenance related flight operations, aircrew training, and proficiency flight hours. This project also funds airframe Standard Depot Level Maintenance (SDLM), the Integrated Maintenance Concept (IMC) and Phased Depot Maintenance (PDM), in-service repairs, emergency repairs, and engine repairs, as well as aircraft material condition and field inspections. Additionally, it funds Individual Material Readiness List (IMRL) tools and support equipment, and other systems for application to and compatibility with RDT&E requirements.

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under RESEARCH, DEVELOPMENT, TEST and EVALUATION MANAGEMENT SUPPORT because it supports efforts directed toward sustaining or modernizing installations or operations required for general research, development, test and evaluation.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Aircraft/Engine Maintenance and AVDLR/IMRL Support	33.761	34.487	34.377
Articles:	-	-	-

FY 2013 Accomplishments:

Continued planned transition from Aircraft Structural Periodic Adjustment (ASPA)/SDLM to the IMC/PDM program for depot maintenance requirements, while sustaining the following programs: AVDLR/IMRL, engine repairs, support of aircraft in the RDT&E inventory. Continued operation and implementation of maintenance and material management programs at Naval Air Warfare Center activities.

FY 2014 Plans:

Continue planned transition from ASPA/SDLM to the IMC/PDM program for depot maintenance requirements, while sustaining the following programs: AVDLR/IMRL, engine repairs, support of aircraft in the RDT&E inventory. Continue operation and implementation of maintenance and material management programs at Naval Air Warfare Center activities.

FY 2015 Plans:

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605863N / *RDT&E Ship & Aircraft Support*	**Project (Number/Name)** 0569 / *RDT&E Acft Supt*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Continue planned transition from ASPA/SDLM to the IMC/PDM program for depot maintenance requirements, while sustaining the following programs: AVDLR/IMRL, engine repairs, support of aircraft in the RDT&E inventory. Continue operation and implementation of maintenance and material management programs at Naval Air Warfare Center activities.			
Title: In-Service Repairs	1.051	1.670	1.603
Articles:	-	-	-
FY 2013 Accomplishments: Continued to provide planned In-Service Repair funds for emergent repair requirements to aircraft performing mission critical test and evaluation projects.			
FY 2014 Plans: Continue to provide planned In-Service Repair funds for emergent repair requirements to aircraft performing mission critical test and evaluation projects.			
FY 2015 Plans: Continue to provide planned In-Service Repair funds for emergent repair requirements to aircraft performing mission critical test and evaluation projects.			
Accomplishments/Planned Programs Subtotals	34.812	36.157	35.980

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

The Research, Development, Test & Evaluation (RDT&E) Aircraft Support program goal is to provide the required funds to meet NAVAIR Aircraft Controlling Custodian aircraft sustainment requirements. These sustainment costs include providing annual support for required Planned Depot Maintenance events, In-service Repairs (P&E, Repairs, Mods), Depot Engine Inductions, Individual Material Readiness List Repairs, along with the funding of management oversight of the aircraft and the Aviation Depot Level Repairable costs associated with pilot readiness requirements.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605863N / *RDT&E Ship & Aircraft Support*	Project (Number/Name) 2924 / *SDTS*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2924: *SDTS*	-	7.979	8.332	7.575	-	7.575	7.525	7.235	7.326	7.491	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project provides for the Hull Mechanical and Electrical (HM&E) and remote control system maintenance aboard the Self-Defense Test Ship (SDTS) in support of the Navy Research, Development, Test and Evaluation (RDT&E) of ship self-defense systems. Testing aboard this ship provides the capability to safely test self-defense weapon systems within their minimum range and reduces the number of fleet units required to support RDT&E efforts.

Funds are used to purchase expendable supplies, routine equipment maintenance, and repairs and supporting services.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: SDTS	7.979	8.332	7.575
Articles:	-	-	-
FY 2013 Accomplishments: NSWC PHD continued to conduct planning, scheduling and performing routine HM&E, combat systems and remote control systems maintenance on the SDTS to provide the Navy a safe operational test asset.			
FY 2014 Plans: NSWC PHD continue to conduct planning, scheduling and performing routine HM&E and remote control systems maintenance on the SDTS to provide the Navy a safe operational test asset.			
FY 2015 Plans: NSWC PHD continues to plan, schedule and perform routine HM&E and remote control systems maintenance on the SDTS to provide the Navy a safe operational test asset.			
Accomplishments/Planned Programs Subtotals	7.979	8.332	7.575

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

This line of accounting is for recurring HM&E and ship maintenance.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605863N / *RDT&E Ship & Aircraft Support*	**Project (Number/Name)** 2924 / *SDTS*

E. Performance Metrics

1. Ability to successfully remain safe and operationally available to support testing and evaluation of systems while in an unmanned, remotely controlled mode.
2. Successful development of applicable operation and maintenance documentation and reporting of installations.
3. Successful and timely delivery of funding status, schedule and technical delays and other issues.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605863N / *RDT&E Ship & Aircraft Support*	Project (Number/Name) 3206 / *T&E Enterprise*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3206: *T&E Enterprise*	-	54.344	63.018	61.026	-	61.026	17.240	12.660	13.272	13.715	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The T&E Enterprise consolidates all Air Warfare (AW) Ship Self Defense (SSD) at-sea testing across multiple class ships, beginning with CVN-74, LHD-8, LPD-17, LSD-50, LHA-6, DDG-1000, CVN-78, and Littoral Combat Ship (LCS) versions 5 and 6. This consolidated AW SSD test and evaluation approach meets the Probability of Raid Annihilation (PRA) (PRA is defined as a required surface ship defense against Anti-Ship Cruise Missiles), Self Defense Test Ship (SDTS) testing requirements as outlined in Air Warfare Ship Self Defense Enterprise TEMP 1714, and lead/operational ship testing requirements for Extended Sea Sparrow Missile (ESSM) TEMP 1471, Rolling Airframe Missile (RAM) Blk 2 TEMP 286-1, DDG 1000 TEMP 1560, CVN 78 TEMP 1610, Cooperative Engagement Capability (CEC) TEMP 1415, SSDS TEMP 1400, LHA 6 TEMP 1697, AN/SPQ-9B TEMP 1463, Surface Electronic Warfare Improvement Program (SEWIP) TEMP 1658 (Block 1A), 0686, and LCS TEMP 1695.

Enterprise Cost elements:
a) SDTS Acquisition includes the direct procurement costs of major Combat Systems (CS) elements which will be installed on the Self Defense Test Ship (SDTS).

b) SDTS Summary includes installation, check-out and stage testing of the major combat systems elements on the SDTS.

c) SDTS Test includes tracking and firing exercises versus single and dual, subsonic and supersonic Anti-Ship Cruise Missile (ASCM) threat surrogates for ship classes in the Enterprise TEMP from the SDTS including: LHA-6, LSD-50, DDG-1000, LCS-5, LCS-6 and CVN-78.

d) Lead Ship Test includes tracking and firing exercises versus single and dual, subsonic and supersonic ASCM threat surrogates for ship classes in the Enterprise TEMP from the Lead Ship including: LHA-6, LSD-50, LCS-5, LCS-6 and CVN-78.

e) Testbed includes all modeling and simulation (M&S) costs required to create OT-quality digital representations of shipboard combat system performance including infrastructure, distributed secure network, common environmental services for Developmental Test (DT) and Operational Test (OT).

f) Enterprise Testing and Planning includes the contractor and government costs to administer the Enterprise, collect and distribute data from live events, maintain Information Assurance (IA) certifications, and financial management.

g) Maintenance of CS includes the costs for the routine preventive maintenance and repairs of the Combat Systems elements on the SDTS.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605863N / *RDT&E Ship & Aircraft Support*	**Project (Number/Name)** 3206 / *T&E Enterprise*

The T&E Enterprise merges common ship, element, and system requirements into the least number of test events while leveraging planned Combat System Ship Qualification Trials (CSSQTs) to accomplish Developmental Testing (DT) and Operational Testing (OT) requirements. All tests on the SDTS require the sharing of infrastructure, missile range allocations, execution time and underway time to eliminate duplicative testing. T&E Enterprise preserves end-to-end mission Operational Testing in a realistic operational environment, capitalizing on Probability of Raid Annihilation M&S data validated with results of that Operational Testing, and ensuring a consistent approach across ship classes. Applicability of all test events is beneficial across multiple ship classes with the same variation under test.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: T&E Enterprise	54.344	63.018	61.026
Articles:	-	-	-

FY 2013 Accomplishments:

The Enterprise continued industrial efforts leading to the INCO of the DDG 1000 and LSD 50 on the SDTS. These efforts were primarily documentary in FY13 with the development of engineering studies, engineering reviews and documentation of configuration changes to the ex PAUL F FOSTER. The Enterprise completed the ET-03 testing series in Q1 with the accomplishment of the A3 test event and continued ET-05 events. ET-05 events which included BQM-T1, T2 and M were accomplished on schedule as planned.

During the ET-05 SIT-2B test event systems of systems (SoS) anomalies were observed in combat systems performance which merited a Failure Review Board (FRB). The FRB directed modifications to software in combat systems elements which added cost to the Enterprise and also pushed the following ET-05 events into Q1F14: DT-05R, ET05 T3, ET-05 G, and ET-05I.

The Enterprise conducted the FIRST EVER at-sea launches of the RAM Block 2 from the Self Defense Test Ship.

The Enterprise completed dT 6.5 and DT 7 as scheduled in FY13 supporting ET-15 for the LHA 6. The Enterprise plans on conducting DT8 and dT 8.5 for the PRA Testbed to support OT ET15 for LHA 6 OT, OT ET-17B LCS-6, OT ET18 for LSD 41/49, and OT ET 19 for CVN 78 adding new and newly matured software capability to the federate. DT 8 will include updates on the SPQ-9B Transmitter Upgrade Program (TUP), SPS-48E, SPS-49A, CEC, SSDS, RAM Blk 1A, RAM Blk 2, MK57/ESSM, Close-in Weapon System (CIWS), SLQ-32B(V)2, Decoys (Nulka, Chaff, Giant), SeaRAM, threats, and virtual range models.

FY 2014 Plans:

The cost increases in FY14 are created by the acquisition of two major combat systems elements for installation on the SDTS: 1) SPS 75, the air search RADAR used on LCS-5, and 2) SEWIP Block 2, the electronic warfare system used on CVN-78.
Other FY14 activities include a pier side industrial availability during which time the DDG-1000 Multi-Function Radar (MFR) and Total Ships Computing Environment (TSCE) will begin to be installed on the ship. Eight cells of the MK 41 VLS will be moved from forward to aft and electronically modified to function as a Mk 57 VLS. During this same availability, the LSD-50 SSDS Mk 2 Mod 5C equipment will begin its installation. Upon completion of the availability the ship will undergo Stage 1 through Stage 7 testing to ensure the combat systems elements are properly installed and safe to operate.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605863N / *RDT&E Ship & Aircraft Support*	**Project (Number/Name)** 3206 / *T&E Enterprise*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
The Enterprise plans on conducting test events Harpoon Captive Carry, BQMT3, ET-05 G, ET-05 X, ET-05 I and ET-05 J on the SDTS in FY14. The Enterprise will complete dT 7.5 and DT 8 to support OT ET15 for LHA 6 OT, OT ET-17B LCS-6, OT ET18 for LSD-41/49, and OT ET 19 for CVN-78 adding new and newly matured software capability to the federate. DT 8 will include updates on the SPQ-9B TUP, SPS-48E, SPS-49A, CEC, SSDS, RAM Blk 1A, RAM Blk 2, MK57/ESSM, CIWS, SLQ-32B(V)2, Decoys (Nulka, Chaff, Giant), SeaRAM, threats, and virtual range models. Beginning in FY14 the Enterprise will begin responsibility for the maintenance of all combat systems elements on the SDTS. Beginning in FY14 the Enterprise will begin responsibility for 20% of the maintenance of the Remote Control System used with the SDTS. ***FY 2015 Plans:*** FY15 plans include the acquisition of two major combat systems elements for installation on the SDTS: 1) COMBATSS-21, the combat direction system used on LCS-5, and 2) Open Architecture (OA) version of the Mk 2 SSDS, the combat direction system used on CVN-78. Other FY15 activities include a wide variety of INCO and test activities on the SDTS including: 1) Completing engineering studies and documentation for LCS-5 modifications to the SDTS, 2) Completion of LSD-50 Mk 2 Mod 5C combat systems elements INCO and test, 3) Completion of DDG-1000 MFR and TSCE installation, 4) Initial planning for the CVN-78 including engineering studies. The Enterprise plans on conducting test event ET-15B in the LCS-6 configuration on the SDTS. The Enterprise will complete dT 8.5 and DT 9 to support OT ET15 for LHA-6 OT, OT ET-17B LCS-6, OT ET18 for LSD 41/49, and OT ET 19 for CVN-78 adding new and newly matured software capability to the federate. The Enterprise will continue routine maintenance on combat systems elements and the remote control system on the SDTS. The Enterprise was notified of a delay in the delivery of the Multi Stage Separating Target (MSST) from PMA208. The MSST events are planned to be moved from FY15 to FY17.			
Accomplishments/Planned Programs Subtotals	54.344	63.018	61.026

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Acquire CS elements for Enterprise Ship Classes.

Acquire LCS CS elements in FY14 and FY15 and CVN-78 CS elements in FY15.

Acquisition of systems is tailored to each ship class with benefits across multiple classes with similar CS elements.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605863N / *RDT&E Ship & Aircraft Support*	**Project (Number/Name)** 3206 / *T&E Enterprise*

E. Performance Metrics

Successfully complete required documentation and reporting for Enterprise installations and required check out and testing of installations. Successfully complete all Enterprise Operational Test Readiness Reviews (OTRR). Successfully complete required Enterprise developmental testing/operational testing DT/OT testing and combat system ship qualification trials (CSSQT) related tests with 0 casualty delays. Successfully collect related test result data and distribute accordingly.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*					R-1 Program Element (Number/Name) PE 0605864N *I Test & Evaluation Support*							
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
Total Program Element	0.000	341.126	301.219	336.286	-	336.286	345.263	342.604	348.657	350.195	Continuing	Continuing
0541: *AUTEC*	0.000	51.749	45.609	49.419	-	49.419	51.612	51.266	52.182	53.167	Continuing	Continuing
0566: *NAVAIR Environmental Compliance*	0.000	4.077	3.919	4.229	-	4.229	4.263	4.303	4.378	4.462	Continuing	Continuing
0653: *NAWC Weapons Division*	0.000	131.158	126.776	135.860	-	135.860	140.826	139.789	142.315	144.974	Continuing	Continuing
0654: *NAWC Acft Division*	0.000	89.384	85.913	94.168	-	94.168	97.794	97.688	99.437	101.319	Continuing	Continuing
2921: *Pacific Missile Range Facility*	0.000	4.935	4.826	5.275	-	5.275	5.324	5.395	5.492	5.597	Continuing	Continuing
2922: *MRTFB Maint & Repair*	0.000	20.521	23.547	35.744	-	35.744	33.732	32.365	32.843	28.436	Continuing	Continuing
3029: *T&E Policy Support*	0.000	0.711	-	-	-	-	-	-	-	-	-	0.711
3154: *Nanoose and Dabob Bay Ranges*	0.000	11.096	10.629	11.591	-	11.591	11.712	11.798	12.010	12.240	Continuing	Continuing
9999: *Congressional Adds*	0.000	27.495	-	-	-	-	-	-	-	-	-	27.495

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under RESEARCH, DEVELOPMENT, TEST and EVALUATION MANAGEMENT SUPPORT because it supports efforts directed toward sustaining or modernizing installations or operations required for general research, development, test and evaluation.

This program provides institutional maintenance and operations support for: the Naval Undersea Warfare Center Detachment Atlantic Undersea Test and Evaluation Center (AUTEC), Andros Island, Bahamas; the Environmental Compliance Program; Naval Air Warfare Center Weapons Division (NAWCWD), Point Mugu and China Lake, CA; Naval Air Warfare Center Aircraft Division (NAWCAD), Patuxent River, MD; Test and Evaluation (T&E) related capabilities at the Pacific Missile Range Facility, Barking Sands, HI; Maintenance and Repair at NAWCWD, NAWCAD, and AUTEC; and the Naval Undersea Warfare Center Keyport Nanoose and Dabob Bay Ranges. The T&E activities make up the Navy portion of the Department of Defense's Major Range and Test Facility Base. These activities are chartered to perform T&E for the development and acquisition of technology advanced weapons systems. Core T&E capabilities and capacity are operated to obtain weapons system performance documentation for acquisition program milestone decisions to provide operational forces with effective weapons systems. This program provides Navy Acquisition Program Managers required test capabilities; lowers cost of T&E; removes cost and scheduling impact of providing their own T&E resources; and retains the physical airspace, land space and sea space needed to conduct testing.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy	Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy* / BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0605864N / *Test & Evaluation Support*

B. Program Change Summary ($ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	342.298	331.219	333.824	-	333.824
Current President's Budget	341.126	301.219	336.286	-	336.286
Total Adjustments	-1.172	-30.000	2.462	-	2.462
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-30.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.452	-			
• SBIR/STTR Transfer	-0.452	-			
• Program Adjustments	-	-	10.809	-	10.809
• Rate/Misc Adjustments	-	-	-8.347	-	-8.347
• Congressional General Reductions Adjustments	-30.268	-	-	-	-
• Congressional Add Adjustments	30.000	-	-	-	-

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2013	FY 2014
Project: 9999: *Congressional Adds*		
Congressional Add: *MRTFB*	27.495	-
Congressional Add Subtotals for Project: 9999	27.495	-
Congressional Add Totals for all Projects	27.495	-

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605864N / *Test & Evaluation Support*				Project (Number/Name) 0541 / *AUTEC*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
0541: *AUTEC*	-	51.749	45.609	49.419	-	49.419	51.612	51.266	52.182	53.167	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

As a detachment of Naval Undersea Warfare Center, Division Newport, the mission of the Atlantic Undersea Test and Evaluation Center (AUTEC) is to provide the US Navy an underwater range facility for full-spectrum test and evaluation of Undersea Warfare systems and for Fleet training and readiness assessment. The AUTEC Program Office is headquartered at Newport, RI. AUTEC's administrative offices are located at West Palm Beach, Florida. Test facilities are located at Andros Island, Sites 1 through 4, and the Berry Islands in the Bahamas. AUTEC aircraft make scheduled daily flights between West Palm Beach and Andros Town Airport.

AUTEC manages and, under service contract, maintains and operates a 500 square nautical miles deep-water and a 100 square nautical miles shallow-water acoustic tracking range; air-target tracking capabilities; sonobuoy simulation systems; electronic warfare threat simulation systems; rotary wing aircraft; aircraft ground support facilities; acoustic targets; torpedo retrieval and flushing capabilities; open-ocean range craft; marine support facilities; and data processing and analysis capabilities.

Major test facilities on Andros Island are located at Site 1. The Command Control Building houses the range tracking displays and replay centers, the computer center, operations support functions, communications center, and the central timing system. The Range Support Facility houses a torpedo post-run workshop, Mark 46 /Mark 50 lightweight torpedo Intermediate Maintenance Activity (IMA), a Mark 30 undersea target IMA, a Mark 48 heavyweight torpedo Research and Development Turnaround facility and related technical facilities. The complex includes electrical and physical calibration labs, a complete electronics maintenance shop, a dive locker, a precision machine shop, and logistics support areas.

AUTEC has a 285-foot concrete pier with a controlling depth of 17 feet (5.2 meters) at mean low tide. An adjacent wharf is approximately 240 feet in length (72 meters) with a controlling depth of 15 feet at mean low tide. Power is available at both locations. Facilities at the pier/marine area include fully equipped machine /fabrication and marine overhaul shops. Also at Site 1, six Range User Buildings are maintained for assembling test equipment and equipment check-out during test mobilization or dockside periods. These staging areas are equipped with a variety of power sources, gantry cranes, compressed air and security features. A fully equipped range user hanger for ground maintenance and storage of helicopters is located at the AUTEC helicopter airstrip. Sites 2, 3, and 4 are small instrumented areas located south of Site 1 used to extend tracking of sonobuoys, communications, and air target track.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	**FY 2013**	**FY 2014**	**FY 2015**
Title: Atlantic Undersea Test and Eval Ctr Facility	40.478	34.338	38.148
Articles:	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605864N / *Test & Evaluation Support*	**Project (Number/Name)** 0541 / *AUTEC*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Description: AUTEC is a Test and Evaluation facility for collecting selected underwater, surface and air tracking data on test participants. This project funds the overhead/institutional costs required to sustain the Major Range and Test Facility capabilities at AUTEC in accordance with Department of Defense Directive 3200.11. ***FY 2013 Accomplishments:*** Continued to maintain and operate mission essential/core test support resources, instrumentation systems and marine craft required to meet customer test workload. Funded civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain Major Range and Test Facility Base (MRTFB) operations. Reimbursed the Command for General and Administrative support services. ***FY 2014 Plans:*** Continue to maintain and operate mission essential/core test support resources, instrumentation systems and marine craft required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. Reimburse the Command for General and Administrative support services. Atlantic Undersea Test and Evaluation Center (AUTEC) facility maintenance and repair funding ($4M) was realigned to the Maintenance and Repair (2922) Project. ***FY 2015 Plans:*** Continue to maintain and operate mission essential/core test support resources, instrumentation systems and marine craft required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. Reimburse the Command for General and Administrative support services. AUTEC facility maintenance and repair funding ($4M) was realigned to the Maintenance and Repair (2922) Project.			
Title: Bahamian Lease	11.271	11.271	11.271
Articles:	-	-	-
Description: Rental payments to the Bahamian government for use of land and ocean in the Bahamas. ***FY 2013 Accomplishments:*** Continued to provide rental payments to the Bahamian government for use of land and ocean in the Bahamas. ***FY 2014 Plans:*** Continue to provide rental payments to the Bahamian government for use of land and ocean in the Bahamas. ***FY 2015 Plans:*** Continue to provide rental payments to the Bahamian government for use of land and ocean in the Bahamas.			
Accomplishments/Planned Programs Subtotals	51.749	45.609	49.419

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605864N / *Test & Evaluation Support*	**Project (Number/Name)** 0541 / *AUTEC*

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not applicable.

E. Performance Metrics

Maintain Major Range and Test Facility Base infrastructure in a ready state to provide between 2,500-2,900 range hours in support of multiple Navy and Department of Defense acquisition programs and fleet training.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605864N / *Test & Evaluation Support*	Project (Number/Name) 0566 / *NAVAIR Environmental Compliance*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0566: *NAVAIR Environmental Compliance*	-	4.077	3.919	4.229	-	4.229	4.263	4.303	4.378	4.462	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This continuing project supports environmental compliance, conservation and pollution prevention related efforts at the Navy Major Range and Test Facility Base (MRTFB) located at Patuxent River, MD, China Lake, CA, Point Mugu, CA, and Atlantic Undersea Test and Evaluation Center, Bahamas. The Navy MRTFB environmental projects include ongoing efforts to comply with Federal, State, and local environmental requirements.

The MRTFB are test and evaluation facilities that provide for Department of Defense test and evaluation support missions. These missions include: Weapons system testing, military operational squadron training on new weapon systems, and validation of performance or operational characteristics.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Environmental Compliance	4.077	3.919	4.229
Articles:	-	-	-
Description: Projects supporting level 1 compliance requirements at Naval Air Systems Command (NAVAIR) Ranges inclusive of hazardous waste disposal, Resource Conservation & Recovery Act (RCRA), Subtitle C - 40 CFR 260 through 279, and Emergency Planning and Community Right-to-Know Act (EPCRA), Sections 311-312; solid waste disposal, Resource Conservation & Recovery Act (RCRA), Subtitle D - 40 CFR Parts 239 through 259; natural & cultural resources programs, National Environmental Policy Act (NEPA), Environmental Protection Act (EPA), Marine Mammal Protection Act (MMPA), Endangered Species Act (ESA), Archeological and Historic Preservation Act (AHPA), maintaining of environmental permits, Clean Air Act (CAA), Clean Water Act (CWA), and environmental monitoring. RCRA, 42 U.S.C. Section 6901 et sequens 1976; EPCRA, 42 U.S.C. Section 11001-11050 et sequens 1986; NEPA, 42 U.S.C. Section 4331 et sequens 1969; MMPA, 16 U.S.C. Section 1361 et sequens 1972; CWA, 33 U.S.C. Section 1251-1387 1972; ESA, 7 U.S.C. Section 136, 16 U.S.C. Section 1531 et sequens 1973; AHPA, 16 USC Section 469-469c-2 1960; and CAA, Title V, 33 U.S.C. Section 1251 et sequens 1972.			
FY 2013 Accomplishments: Continued mandated monitoring of range operations environmental impacts. Continued monitoring of endangered species and marine mammals which is required in order to comply with applicable laws and regulations.			
FY 2014 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605864N / *Test & Evaluation Support*	**Project (Number/Name)** 0566 / *NAVAIR Environmental Compliance*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Continue mandated monitoring of range operations environmental impacts. Continue monitoring of endangered species and marine mammals which is required in order to comply with applicable laws and regulations. ***FY 2015 Plans:*** Continue identification and funding of level 1 requirements that support compliance projects at Naval Air Systems Command Ranges and ensure applicable laws and regulations are met and Range mission/operations proceed unencumbered.			
Accomplishments/Planned Programs Subtotals	4.077	3.919	4.229

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not applicable.

E. Performance Metrics

Execute 15-20 environmental projects per year required to comply with existing laws, regulations, executive orders, and final governing standards.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605864N / *Test & Evaluation Support*	Project (Number/Name) 0653 / *NAWC Weapons Division*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0653: *NAWC Weapons Division*	-	131.158	126.776	135.860	-	135.860	140.826	139.789	142.315	144.974	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Project provides continuing maintenance and operational support for the Naval Air Warfare Center Weapons Division Test and Evaluation (T&E) capabilities. These capabilities include the Pacific Ranges and Facilities, consisting of China Lake Ranges and the Point Mugu Sea Range, aerial and surface targets, test instrumentation, and T&E aircraft. The Pacific Ranges use China Lake's 1.1 million acres of land and 17,000 square miles of military restricted (R-2508) airspace together with Point Mugu's 125,000 square miles of instrumented sea range and 36,000 square miles of controlled overlying airspace, and airfield and test instrumentation at San Nicolas Island to perform its T&E mission. Included in the China Lake ranges is the Electronic Combat Range (ECR), which provides outdoor free space development and operational testing of airborne electronic warfare systems and tactics against shipboard and land based air defense systems. These ranges perform metric radar, multilateration and optical tracking of test objects; command, control, and destruct for range safety purposes; communications; frequency interference control and analysis; collection processing and display of telemetered data; real-time data processing and display; and the operation of a sub scale aerial target launch capability. Other test capabilities include sled tracks, measurement facility; propulsion, warhead, environmental, rocket motor, and other missile component test facilities; and gun ranges. This project funds costs that are not chargeable to customers.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Pacific Ranges	52.990	48.914	54.495
Articles:	-	-	-
Description: In accordance with Department of Defense Directive 3200.11., this project funds the overhead/institutional costs required to sustain the Major Range and Test Facility Base (MRTFB) capabilities at the Pacific Ranges and Facilities located at China Lake and Point Mugu, CA. These facilities provide safe, instrumented, controlled open air testing utilizing the Land Range, Sea Range, ECR, Air Vehicle Modification and Instrumentation, and San Nicholas Island.			
FY 2013 Accomplishments: Continued to maintain and operate mission essential/core test support resources. These resources include test article instrumentation and/or modification for Flight Test Aircraft Weapons Under Test and Aircraft Engines Undergoing Un-installed test. Scheduled and control air, land, sea and associated range operating areas required to meet customer test workload. Funded civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased services contracts, annual utilities and any costs necessary to manage and sustain the MRTFB operations.			
FY 2014 Plans: Continue to maintain and operate mission/core test support resources. These resources include test article instrumentation and systems required to safely conduct flight and ground test missions as well as schedule and control air, land, sea and associated			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605864N / *Test & Evaluation Support*	**Project (Number/Name)** 0653 / *NAWC Weapons Division*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
range operating areas required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased services contracts, annual utilities and any costs necessary to manage and sustain the Major Range and Test Facility Base (MRTFB) operations. ***FY 2015 Plans:*** Continue to maintain and operate mission/core test support resources. These resources include test article instrumentation and systems required to safely conduct flight and ground test missions as well as schedule and control air, land, sea and associated range operating areas required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased services contracts, annual utilities and any costs necessary to manage and sustain the MRTFB operations.			
Title: Navy Test Wing Pacific	20.536	19.451	22.090
Articles:	-	-	-
Description: This project funds the overhead/institutional costs required to sustain the MRTFB capabilities of the Naval Test Wing Pacific located at China Lake and Point Mugu, CA. These facilities provide the Navy's principal Pacific test activity for Naval Aviation Systems Team aircraft, engaged in or supporting Test & Evaluation of aircraft, weapons and weapons systems. ***FY 2013 Accomplishments:*** Continued to maintain and operate mission essential/core test support resources associated with 10 aircraft and related systems and flight test safety required to meet customer test workload. Funded civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. ***FY 2014 Plans:*** Continue to maintain and operate mission essential/core test support resources associated with 11 aircraft and related systems and flight test safety required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. ***FY 2015 Plans:*** Continue to maintain and operate mission essential/core test support resources associated with 11 aircraft and related systems and flight test safety required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain Major Range and Test Facility Base (MRTFB) operations.			
Title: Threat/Target Systems	10.150	9.782	10.984
Articles:	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605864N / *Test & Evaluation Support*	**Project (Number/Name)** 0653 / *NAWC Weapons Division*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Description: This project funds the overhead/institutional costs required to sustain the MRTFB capabilities of the Threat/Target Systems facilities. These facilities provide the airborne and seaborne threats for test and evaluation. ***FY 2013 Accomplishments:*** Continued to maintain and operate mission essential/core test support resources associated with airborne and seaborne targets required to meet customer test workload. Funded civilian labor, travel, transportaion, equipment, supplies, communicaiton, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. ***FY 2014 Plans:*** Continue to maintain and operate mission essential/core test support resources associated with airborne and seaborne targets required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain the MRTFB operations. ***FY 2015 Plans:*** Continue to maintain and operate mission essential/core test support resources associated with airborne and seaborne targets required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain the MRTFB operations.			
Title: Test and Evaluation Ordnance	2.996	2.538	2.998
Articles:	-	-	-
Description: This project funds the overhead/institutional costs required to sustain the MRTFB capabilities of the Test and Evaluation Ordnance facilities. These facilities provide test and evaluation of All-Up live ordnance and components. ***FY 2013 Accomplishments:*** Continued to maintain and operate mission essential/core test support resources associated propulsion, warhead, environmental rocket motor, and other missile component test facilities required to meet customer test workload. Funded civilian labor, travel, transportation, equipment, supplies, communicaiton, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain Major Range and Test Facility Base (MRTFB) operations. ***FY 2014 Plans:*** Continue to maintain and operate mission essential/core test support resources associated propulsion, warhead, environmental, rocket motor, and other missile component test facilities required to meet customer test workload. Fund civilian labor, travel,			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605864N / *Test & Evaluation Support*	**Project (Number/Name)** 0653 / *NAWC Weapons Division*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. ***FY 2015 Plans:*** Continue to maintain and operate mission essential/core test support resources associated propulsion, warhead, environmental, rocket motor, and other missile component test facilities required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.			
Title: Naval Air Warfare Center Weapons Division (NAWCWD) Command ***Articles:*** ***Description:*** This project funds the overhead/institutional costs required to sustain the NAWCWD MRTFB Test and Evaluation capabilities. ***FY 2013 Accomplishments:*** Continued to reimburse the Command for General and Administrative Support services. Continued to fund civilian labor, travel, transportation, equipment, supplies, communicaiton, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. ***FY 2014 Plans:*** Continue to reimburse the Command for General and Administration Support services. Continue to fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities, Navy Marine Corps Intranet, and any costs necessary to manage and sustain Major Range and Test Facility Base (MRTFB) operations. ***FY 2015 Plans:*** Continue to reimburse the Command for General and Administration Support services. Continue to fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities, Navy Marine Corps Intranet, and any costs necessary to manage and sustain MRTFB operations.	44.486 -	46.091 -	45.293 -
Accomplishments/Planned Programs Subtotals	131.158	126.776	135.860

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not applicable.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605864N / *Test & Evaluation Support*	**Project (Number/Name)** 0653 / *NAWC Weapons Division*

E. Performance Metrics

Maintain MRTFB infrastructure in a ready state to provide between 4,300-4,800 range hours, 125-150 aerial target presentations, 400-450 surface target presentations, 11,000-11,500 ordnance test hours, and over 6,000 flight hours in support of multiple Navy and Department of Defense acquisition programs and fleet training.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605864N / *Test & Evaluation Support*				Project (Number/Name) 0654 / *NAWC Acft Division*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
0654: *NAWC Acft Division*	-	89.384	85.913	94.168	-	94.168	97.794	97.688	99.437	101.319	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project provides funds for the maintenance and operations of the Naval Air Warfare Center Aircraft Division's (NAWCAD's) Major Range and Test Facility Base (MRTFB) capabilities used to conduct test and evaluation for air platforms. NAWCAD has extensive airfield, flight test ranges, aircraft systems test facilities and simulation laboratories to support aircraft Research Development Test and Evaluation. This includes 50,000 square miles of airspace, 39,375 square miles of sea space, and 7,950 acres of land space. Product areas include aircraft systems flight test and evaluation, carrier suitability certification, test article preparation, installed system test and evaluation, and modeling and simulation support of the acquisition process. The Test and Evaluation Group, Patuxent River, performs development and operational test and evaluation of manned and unmanned air vehicle systems, including mission systems, equipment, subsystems, components, and support systems. This project also provides test and evaluation facilities for air-breathing propulsion systems and extensive facilities for conducting both installed and uninstalled aircraft engine development and test and evaluation. This project funds costs that are not chargeable to customers.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Atlantic Ranges	21.669	20.650	22.538
Articles:	-	-	-

Description: This project funds the overhead/institutional costs required to sustain the MRTFB capabilities associated with the Atlantic Ranges and Facilities and Air Vehicle Modification and Instrumentation. These facilities provide safe, instrumented, controlled flight testing and training in air, sea, and land arenas.

FY 2013 Accomplishments:

Continued to maintain and operate mission essential/core test support resources. These resources included test article instrumentation and/or modification for Flight Test Aircraft and Weapons Undersea Test as well as, ground and flight test instrumentation systems, range instrumentation systems and data processing and communication systems required to meet customer test workload. Funded civilian labor travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.

FY 2014 Plans:

Continue to maintain and operate mission essential/core test support resources. These resources include test article instrumentation and/or modification for Flight Test Aircraft and Weapons Undersea Test as well as ground and flight test instrumentation systems, range instrumentation systems and data processing and communication systems required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance,

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605864N / *Test & Evaluation Support*	**Project (Number/Name)** 0654 / *NAWC Acft Division*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
purchased service contracts, annual utilities and any costs necessary to manage and sustain Major Range and Test Facility Base (MRTFB) operations. ***FY 2015 Plans:*** Continue to maintain and operate mission essential/core test support resources. These resources include test article instrumentation and/or modification for Flight Test Aircraft and Weapons Undersea Test as well as ground and flight test instrumentation systems, range instrumentation systems and data processing and communication systems required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.			
Title: Electromagnetic Environmental Effects (E-Cubed) and Air Combat Environment Test and Evaluation Facility (ACETEF) ***Articles:*** ***Description:*** This project funds the overhead/institutional costs required to sustain the MRTFB capabilities associated with E-Cubed and ACETEF. These facilities provide Test & Evaluation support with integrated, interactive, and repeatable synthetic environments and reduce the risk and cost for programs with the use of installed systems tests to include simulation and stimulation tools, techniques and technologies. ***FY 2013 Accomplishments:*** Continued to maintain and operate mission essential/core test support resources required to meet customer test workload. Funded civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. ***FY 2014 Plans:*** Continue to maintain and operate mission essential/core test support resources required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. ***FY 2015 Plans:*** Continue to maintain and operate mission essential/core test support resources required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain Major Range Test Facility Base (MRTFB) operations.	18.524 -	17.386 -	19.149 -
Title: Propulsion Systems Test Facility (PSEF) ***Articles:*** ***Description:*** This project funds the overhead/institutional costs required to sustain the MRTFB capabilities of the PSEF. These facilities perform Test & Evaluation (T&E) of propulsion systems in the laboratories, engine test chambers and component test	4.004 -	4.038 -	4.360 -

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605864N / *Test & Evaluation Support*	**Project (Number/Name)** 0654 / *NAWC Acft Division*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
rigs of the PSEF and the Aircraft Test & Evaluation Facility. Propulsion Systems consists of engines, engine components and accessories. ***FY 2013 Accomplishments:*** Continued to maintain and operate mission essential/core test support resources required to meet customer test workload. Funded civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. ***FY 2014 Plans:*** Continue to maintain and operate mission essential/core test support resources required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. ***FY 2015 Plans:*** Continue to maintain and operate mission essential/core test support resources required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.			
Title: Threat/Target Systems	1.537	1.426	1.610
Articles:	-	-	-
Description: This project funds the overhead/institutional costs required to sustain the MRTFB capabilities of the Threat/Target Systems facilities. These facilities provide the airborne and seaborne threats for T&E. ***FY 2013 Accomplishments:*** Continued to maintain and operate mission essential/core test support resources associated with airborne and seaborne targets required to meet customer test workload. Funded civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain Major Range and Test Facility Base (MRTFB) operations. ***FY 2014 Plans:*** Continue to maintain and operate mission essential/core test support resources associated with airborne and seaborne targets required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. ***FY 2015 Plans:***			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605864N / *Test & Evaluation Support*	**Project (Number/Name)** 0654 / *NAWC Acft Division*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Continue to maintain and operate mission essential/core test support resources associated with airborne and seaborne targets required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.			
Title: Naval Test Wing Atlantic	22.110	19.761	22.025
Articles:	-	-	-
Description: This project funds the overhead/institutional costs required to sustain the MRTFB capabilities of the Naval Test Wing Atlantic. These facilities provide support for Naval Aviation Systems Team aircraft, engaged in or supporting Test & Evaluation aircraft systems. ***FY 2013 Accomplishments:*** Continued to maintain and operate mission essential/core test support resources associated with 12 aircraft and related systems and flight test safety required to meet customer test workload. Funded civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. ***FY 2014 Plans:*** Continue to maintain and operate mission essential/core test support resources associated with 12 aircraft and related systems and flight test safety required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain Major Range and Test Facility Base (MRTFB) operations. ***FY 2015 Plans:*** Continue to maintain and operate mission essential/core test support resources associated with 12 aircraft and related systems and flight test safety required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.			
Title: Naval Air Warfare Center Aircraft Division Command (NAWCAD)	21.540	22.652	24.486
Articles:	-	-	-
Description: This project funds the overhead/institutional costs required to sustain the NAWCAD MRTFB Test & Evaluation capabilities. ***FY 2013 Accomplishments:***			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605864N / *Test & Evaluation Support*	**Project (Number/Name)** 0654 / *NAWC Acft Division*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Continued to reimburse the Command for General and Administrative support services. Continued to fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. ***FY 2014 Plans:*** Continue to reimburse the Command for General and Administrative support services. Continue to fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. ***FY 2015 Plans:*** Continue to reimburse the Command for General and Administrative support services. Continue to fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.			
Accomplishments/Planned Programs Subtotals	89.384	85.913	94.168

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not applicable.

E. Performance Metrics

Maintain Major Range Test Facility Base infrastructure in a ready state to provide between 8,700-9,200 range hours, 4,900-5,300 chamber hours, 9,500-10,000 Electromagnetic Environmental Effects test hours, and over 10,000 flight hours in support of multiple Navy and Department of Defense acquisition programs and fleet training.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605864N / *Test & Evaluation Support*	Project (Number/Name) 2921 / *Pacific Missile Range Facility*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2921: *Pacific Missile Range Facility*	-	4.935	4.826	5.275	-	5.275	5.324	5.395	5.492	5.597	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This program provides continuing maintenance and operations support for Test & Evaluation (T&E) related capabilities at the Pacific Missile Range Facility (PMRF) located at Barking Sands on Kauai, HI. PMRF's T&E capabilities include precision radar and telemetry assets, the Mobile Aerial Target Support System (MATSS), and Stabilized High-accuracy Optical Tracking System (SHOTS). These assets support Navy, Department of Defense, and Army Missile Defense Test & Evaluation. This project funds costs not chargeable to customers. Effective FY 12 and out, PMRF instrumentation will be phased out due to large funding reductions.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: PMRF	4.935	4.826	5.275
Articles:	-	-	-

Description: This project funds the overhead/institutional costs required to sustain the recognized Major Range and Test Facility Base (MRTFB) capabilities at PMRF in accordance with Department of Defense Directive 3200.11.

FY 2013 Accomplishments:

Continued to maintain and operate mission essential/core test support resources including the precision radar and telemetry assets, the MATSS, the SHOTS, and the Telemetry Systems required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. Reimburse the Command for General and Administrative support services.

FY 2014 Plans:

Continue to maintain and operate mission essential/core test support resources including the precision radar and telemetry assets, the MATSS, the SHOTS, and the Telemetry Systems required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. Reimburse the Command for General and Administrative support services.

FY 2015 Plans:

Continue to maintain and operate mission essential/core test support resources including the precision radar and telemetry assets, the MATSS, the SHOTS, and the Telemetry Systems required to meet customer test workload. Fund civilian labor, travel,

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605864N / *Test & Evaluation Support*	**Project (Number/Name)** 2921 / *Pacific Missile Range Facility*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain Major Range Test Facility Base (MRTFB) operations. Reimburse the Command for General and Administrative support services.			
Accomplishments/Planned Programs Subtotals	4.935	4.826	5.275

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not applicable.

E. Performance Metrics

Maintain MRTFB infrastructure in a ready state to provide between 600-1,000 range hours in support of multiple Navy and Department of Defense acquisition programs and fleet training.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605864N / *Test & Evaluation Support*	Project (Number/Name) 2922 / *MRTFB Maint & Repair*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2922: *MRTFB Maint & Repair*	-	20.521	23.547	35.744	-	35.744	33.732	32.365	32.843	28.436	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project provides funding for the maintenance and repair of the Major Range and Test Facility Base (MRTFB) Real Property Maintenance Activities (RPMA) at the Naval Air Warfare Center Weapons Division (NAWCWD), the Naval Air Warfare Center Aircraft Division (NAWCAD), and the Atlantic Undersea Test and Evaluation Center (AUTEC). Funds mission critical emergency services, recurring maintenance and repair, and major repair projects. In addition it addresses priority items on the Backlog of Maintenance and Repair list.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Facility Maintenance and Repair	20.521	23.547	35.744
Articles:	-	-	-
Description: Maintenance and repair of the MRTFB RPMA at NAWCWD, NAWCAD, and AUTEC. ***FY 2013 Accomplishments:*** Continued to support mission critical emergency serices, recurring maintenance and repair, and minor and major repair efforts at NAWCWD, NAWCAD, and AUTEC. FY13 budget funds MRTFB facility to 80% of Department of Defense Sustainment Model and 23% of the Restoration and Modernization Model. ***FY 2014 Plans:*** Continue to support mission critical emergency serices, recurring maintenance and repair, and minor and major repair efforts at NAWCWD, NAWCAD, and AUTEC. FY14 budget funds MRTFB facility to 80% of Department of Defense sustainment model and 23% of the Restoration and Modernization Model. AUTEC facility maintenance and repair funding ($4M) was realigned to the Maintenance and Repair (2922) Project. ***FY 2015 Plans:*** Continue to support mission critical emergency services, recurring maintenance and repair, and minor and major repair efforts at NAWCWD, NAWCAD, and AUTEC. FY15 budget funds MRTFB facility to 80% of Department of Defense sustainment model and 23% of the Restoration and Modernization Model. AUTEC facility maintenance and repair funding ($4M) was realigned to the Maintenance and Repair (2922) Project.			
Accomplishments/Planned Programs Subtotals	20.521	23.547	35.744

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605864N / *Test & Evaluation Support*	**Project (Number/Name)** 2922 / *MRTFB Maint & Repair*

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not applicable.

E. Performance Metrics

Maintain the 141, 357, and 784 building/structures at Atlantic Undersea Test and Evaluation Center, Naval Air Warfare Center Aircraft Division, and Naval Air Warfare Center Weapons Division respectively. Execute 15-20 major repair projects per year to address mission critical services.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605864N / *Test & Evaluation Support*				Project (Number/Name) 3029 / *T&E Policy Support*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
3029: *T&E Policy Support*	-	0.711	-	-	-	-	-	-	-	-	-	0.711
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project provides funds to support Test and Evaluation (T&E) policy, transformation, programming, requirements validation, T&E Execute Agent Support, and T&E dispute arbitration and resolution in an evolutionary acquisition environment. This expertise is also used as required to support the completion of the Navy T&E mission including oversight of T&E plans for Navy and Joint acquisition programs, liaison with other agencies on T&E matters, development of T&E strategic plans, conduct of T&E studies and assessments, formulation and validation of T&E capability needs, assessment and support of future testing of formal acquisition programs, and identification of Science and Technologies required to support T&E of future acquisition programs.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: T&E Policy & Requirements Validation Support	0.711	-	-
Articles:	-	-	-
Description: T&E policy and requirements validation. ***FY 2013 Accomplishments:*** Continued to provide funding for labor, material, and travel in support of the T&E policy and requirements validation. ***FY 2014 Plans:*** N/A ***FY 2015 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	0.711	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not applicable.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605864N / *Test & Evaluation Support*	**Project (Number/Name)** 3029 / *T&E Policy Support*

E. Performance Metrics

Assess and validate requirements for over 25 Navy and Joint test capability investments per year.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605864N / *Test & Evaluation Support*				Project (Number/Name) 3154 / *Nanoose and Dabob Bay Ranges*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
3154: *Nanoose and Dabob Bay Ranges*	-	11.096	10.629	11.591	-	11.591	11.712	11.798	12.010	12.240	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project provides maintenance and operations support for the Nanoose and Dabob Bay Ranges along with associated support systems to provide Test and Evaluation (T&E) and readiness assessment services for acquisition programs and the Fleet. Operates ocean-based environment, measurement and support systems. Maintains and repairs systems that measure warfare system performance. Oversees test, training, and measurement facilities, equipment, operations and maintenance processes. Satisfies customer exercise and measurement requirements through the operation of ocean based test and measurement systems. Assures the readiness of systems through the implementation of calibration, maintenance, repair and life cycle processes. Performs exercise planning, exercise interpretation and development of surrogate environments, measurement and support systems. Assists in the design, fabrication and testing of systems for Undersea Warfare warfare environment simulation and performance measurement. Oversees the manning and maintenance of Naval Undersea Warfare Center Division Keyport range craft and range craft systems.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Undersea Ranges	11.096	10.629	11.591
Articles:	-	-	-

Description: This project funds the overhead/institutional costs required to sustain the Major Range Test Facility Base (MRTFB) capabilities at the Nanoose and Dabob Bay undersea tracking ranges.

FY 2013 Accomplishments:

Continued to maintain and operate mission essential/core test support resources associated with the unique test environments for T&E of undersea weapons, sensors, submarines and other undersea systems required to meet customer test workload. Funded civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. Reimbursed the Command for General and Administrative support services.

FY 2014 Plans:

Continue to maintain and operate mission essential/core test support resources associated with the unique test environments for T&E of undersea weapons, sensors, submarines and other undersea systems required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts,

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605864N / *Test & Evaluation Support*	**Project (Number/Name)** 3154 / *Nanoose and Dabob Bay Ranges*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
annual utilities and any costs necessary to manage and sustain MRTFB operations. Reimburse the Command for General and Administrative support services. ***FY 2015 Plans:*** Continue to maintain and operate mission essential/core test support resources associated with the unique test environments for Test and Evaluation of undersea weapons, sensors, submarines and other undersea systems required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain Major Range and Test Facility Base (MRTFB) operations. Reimburse the Command for General and Administrative support services.			
Accomplishments/Planned Programs Subtotals	11.096	10.629	11.591

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not applicable.

E. Performance Metrics

Maintain MRTFB infrastructure in a ready state to provide between 1,600-2,000 range hours in support of multiple Navy and Department of Defense acquisition programs and fleet training.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605864N / *Test & Evaluation Support*	Project (Number/Name) 9999 / *Congressional Adds*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
9999: *Congressional Adds*	-	27.495	-	-	-	-	-	-	-	-	-	27.495
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Project will address equipment and facility maintenance backlogs across the Navy's Major Range and Test Facility Base (MRTFB) infrastructure. Atlantic Undersea Test and Evaluation Center will repair facilities, marine craft, support vehicles, control/display systems and other acoustic systems. Nanoose and Dabob Bay Ranges will make repairs to marine craft, Buoys and Risers, Acoustic Acquisition System, Instrumentation Systems, and Target Systems. Naval Air Warfare Center Aircraft Division will make repairs and/or additional spares procurement for Test Wing aircraft/systems, marine craft, range and instrumentation systems, electromagnetic test systems, aircraft simulator and stimulator systems, and engine/propulsion test systems. Naval Air Warfare Center Weapons Division will make repairs and/or procure additional spares for test wing aircraft, range instrumentation systems, marine craft, threat and target systems, and Ordnance Test Systems. Pacific Missile Range Facility will make repairs and/or procure additional spares for their telemetry, radar, marine craft, and optical systems.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014
Congressional Add: MRTFB	27.495	-
FY 2013 Accomplishments: Continued to maintain equipment and facility maintenance backlogs across the Navy's MRTFB infrastructure.		
FY 2014 Plans: N/A		
Congressional Adds Subtotals	27.495	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not applicable.

E. Performance Metrics

Improve MRTFB capability readiness by reducing the number of event cancellations and delays caused by MRTFB infrastructure from over from 235 in FY12 to under 200 by FY14.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*					R-1 Program Element (Number/Name) PE 0605865N *I Operational Test & Eval Capability*							
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
Total Program Element	0.000	15.109	16.565	16.658	-	16.658	16.883	17.195	17.327	17.688	Continuing	Continuing
0831: *OPTEVFOR Support*	0.000	14.670	16.565	16.658	-	16.658	16.883	17.195	17.327	17.688	Continuing	Continuing
2923: *Navy JT&E Support*	0.000	0.439	-	-	-	-	-	-	-	-	-	0.439

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This program element (PE) provides Commander, Operational Test and Evaluation Force (COMOPTEVFOR) general support funding for headquarters annual operating costs and ensures COMOPTEVFOR compliance with Secretary of Defense (SECDEF) and Secretary of the Navy (SECNAV) directives to conduct independent operational testing and evaluation. Funding supports planning, conducting, and reporting on the operational effectiveness and suitability of new and improved systems and recommending fleet usage to the Chief of Naval Operations (CNO). Funding also supports ongoing development and implementation of new requirements relative to integrated testing. The CNO, as well as acquisition executives and managers at all levels, have a continuing need for expeditious and efficient conduct of Operational Test and Evaluation (OT&E) by COMOPTEVFOR in support of training and equipping fleet forces. To this end, this funding supports COMOPTEVFOR's continued pursuit of a variety of senior management initiatives aimed at increasing efficiencies in T&E; these senior management initiatives include IT database and decision making technology upgrades, implementation of Integrated Testing and Mission Based Test Design across all programs, and improved staffing and expertise in the areas of DON acquisition processes, Modeling and Simulation, Statistical Studies, Cost Analysis, Information Assurance, and similar disciplines. All of these senior management initiatives are aimed at improving the quality of testing and evaluation, thus ensuring delivery to fleet units of fully tested and capable combat systems. OT&E issues have direct long term Navy-wide implications on the Fleet's readiness and war fighting capability. Rapid advances in technology, changes in fleet tactics, and increased complexity of weapons systems and platforms, combined with reductions in manpower, force structure, and budgets have created an increased need for technical and operational analyses that are sophisticated and timely in order to ensure an optimal return on investment of Navy resources. Funding is also provided for Navy support of the Office of the Secretary of Defense (OSD) sponsored Joint Test and Evaluation (JT&E) program.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy					Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy* / BA 6: *RDT&E Management Support*		R-1 Program Element (Number/Name) PE 0605865N / *Operational Test & Eval Capability*			
B. Program Change Summary ($ in Millions)	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO**	**FY 2015 Total**
Previous President's Budget	16.399	16.565	16.722	-	16.722
Current President's Budget	15.109	16.565	16.658	-	16.658
Total Adjustments	-1.290	-	-0.064	-	-0.064
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.015	-			
• SBIR/STTR Transfer	-0.130	-			
• Program Adjustments	-	-	0.284	-	0.284
• Rate/Misc Adjustments	-0.001	-	-0.348	-	-0.348
• Congressional General Reductions Adjustments	-1.144	-	-	-	-

Change Summary Explanation

Technical: N/A

Schedule: N/A

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605865N / *Operational Test & Eval Capability*	Project (Number/Name) 0831 / *OPTEVFOR Support*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0831: *OPTEVFOR Support*	-	14.670	16.565	16.658	-	16.658	16.883	17.195	17.327	17.688	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This program element (PE) provides Commander, Operational Test and Evaluation Force (COMOPTEVFOR) general support funding for headquarters annual operating costs and ensures COMOPTEVFOR compliance with Secretary of Defense (SECDEF) and Secretary of the Navy (SECNAV) directives to conduct independent operational testing and evaluation. This funding supports planning, testing, and reporting on the operational effectiveness and suitability of new and improved systems and recommending fleet usage to the Chief of Naval Operations (CNO). Funding also supports recently instituted initiatives (including the manpower to execute) that improve COMOPTEVFOR's ability to develop "minimum, adequate" test strategies maximizing efficiencies and minimizing assets required to conduct planned operational testing, thereby driving down overall test and evaluation costs for the Navy. The CNO, as well as acquisition executives and managers at all levels, have a continuing need for expeditious and efficient conduct of Operational Test and Evaluation (OT&E) by COMOPTEVFOR in support of training and equipping fleet forces. To this end, this funding supports COMOPTEVFOR's continued pursuit of a variety of senior management initiatives aimed at increasing efficiencies in T&E; these senior management initiatives include IT database and decision making technology upgrades, implementation of Integrated Testing and Mission Based Test Design across all programs, and improved staffing and expertise in the areas of DON acquisition processes, Modeling and Simulation, Statistical Studies, Information Assurance, and similar disciplines. All of these initiatives are aimed at improving the quality of testing and evaluation, thus ensuring delivery to fleet units of fully tested and capable combat systems. OT&E issues have direct long term Navy-wide implications on the Fleet's readiness and war fighting capability. Rapid advances in technology, changes in fleet tactics, and increased complexity of weapons systems and platforms, combined with reductions in manpower, force structure, and budgets have created an increased need for technical and operational analyses that are sophisticated and timely in order to ensure an optimal return on investment of Navy resources.

This program element (PE) provides Commander, Operational Test and Evaluation Force (COMOPTEVFOR) general support funding for headquarters annual operating costs and ensures COMOPTEVFOR compliance with Secretary of Defense (SECDEF) and Secretary of the Navy (SECNAV) directives to conduct independent operational testing and evaluation. Funding supports planning, conducting, and reporting on the operational effectiveness and suitability of new and improved systems and recommending fleet usage to the Chief of Naval Operations (CNO). Funding also supports ongoing development and implementation of new requirements relative to integrated testing. The CNO, as well as acquisition executives and managers at all levels, have a continuing need for expeditious and efficient conduct of Operational Test and Evaluation (OT&E) by COMOPTEVFOR in support of training and equipping fleet forces. To this end, this funding supports COMOPTEVFOR's continued pursuit of a variety of senior management initiatives aimed at increasing efficiencies in T&E; these senior management initiatives include IT database and decision making technology upgrades, implementation of Integrated Testing and Mission Based Test Design across all programs, and improved staffing and expertise in the areas of DON acquisition processes, Modeling and Simulation, Statistical Studies, Cost Analysis, Information Assurance, and similar disciplines. All of these senior management initiatives are aimed at improving the quality of testing and evaluation, thus ensuring delivery to fleet units of fully tested and capable combat systems. OT&E issues have direct long term Navy-wide implications on the Fleet's readiness and war fighting capability. Rapid advances in technology, changes in fleet tactics,

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605865N / *Operational Test & Eval Capability*	**Project (Number/Name)** 0831 / *OPTEVFOR Support*

and increased complexity of weapons systems and platforms, combined with reductions in manpower, force structure, and budgets have created an increased need for technical and operational analyses that are sophisticated and timely in order to ensure an optimal return on investment of Navy resources.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: OPTEVFOR SUPPORT	14.670	16.565	16.658
Articles:	-	-	-
Description: Funding in this project supports several senior management initiatives aimed at increasing efficiencies in T&E. These initiatives include IT database and decision making technology upgrades; implementation of Integrated Testing and Mission Based Test Design across all programs; and improved staffing and expertise in the areas of DON acquisition processes, Modeling and Simulation, Statistical Studies, Information Assurance, and similar disciplines. All of these initiatives are aimed at improving the quality of testing and evaluation, thus ensuring delivery to fleet units of fully tested and capable combat systems.			
FY 2013 Accomplishments: - Directly supported over 400 programs that were involved in operational testing, either in planning/preparing for testing, conducting tests, or evaluating/assessing test results; conducted 100 operational test events. - Continued application and evaluation and improvement of initiatives implemented in previous years (IT database and decision making technology upgrades, implementation of Mission Based Test Design across all programs, improved staffing expertise in areas previously indicated). - Continued early involvement with systems undergoing developmental testing; continued support for advanced concept technology demonstrations and advanced technology demonstrations.			
FY 2014 Plans: - Continue all efforts of FY13. - Continue to operationally test and evaluate CNO projects commensurate with authorized funding level. - Continue evaluation and improvement of management initiatives previously introduced above (IT database and decision making technology upgrades, implementation of Mission Based Test Design across all programs, improved civilian staffing expertise in areas previously indicated). - Continue to maintain level of effort associated with the DoD 5000-acquisition guidance, which requires increased COMOPTEVFOR involvement in early operational assessments, developmental testing, advanced concept technology demonstrations, and advanced technology demonstrations.			
FY 2015 Plans: - Continue all efforts of FY14.			
Accomplishments/Planned Programs Subtotals	14.670	16.565	16.658

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605865N / *Operational Test & Eval Capability*	**Project (Number/Name)** 0831 / *OPTEVFOR Support*

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

As indicated in section A above, funding provides for core headquarters operations and support (O&S) costs related to required operational testing and evaluation (T&E) conducted in support of Navy acquisition programs. The preponderance of funding provides for the annual O&S costs for day to day operations of the staff/ headquarters of COMOPTEVFOR, located in Norfolk, Virginia. (Pursuant to DoD Financial Management Regulations and Navy financial policy guidance, as a T&E activity, COMOPTEVFOR's annual support costs are funded via RDTEN vice OMN; hence, and unlike most RDTEN programs, these funds provide for O&S costs typical of military field commands/activities). Within this project, over 1/2 of the funding supports salaries of assigned civilian personnel. The remaining funds provide for other routine support costs such as travel, IT support, supplies, and other overhead/administrative support costs. The primary metric used within the project involves support for scheduled Navy acquisition program testing and subsequent analysis and reporting of results of testing to appropriate senior Navy acquisition officials and to the Navy chain of command directly to the CNO and various OPNAV/SECNAV staff offices. The performance goal is met when all assigned/scheduled testing and reporting is supported each year. Specific test program success is measured through analytic results of testing conducted throughout the year and constant interaction with program offices, acquisition decision makers, OPNAV staff resource sponsor offices, OSD and other service T&E offices/activities, and miscellaneous other customers/stakeholders. This project also supports testing and evaluation of various Joint/multi-service programs in which the Navy shares responsibilities in support of the acquisition community. The following metrics relate directly to the funding provided and are applicable to current operations.

Number of Tests Conducted - FY13 = 100; FY14 = 110; FY15 = 118
Number of Programs Supported - FY13 = 417; FY14 = 423; FY15 = 428

As indicated in section A above, funding provides for core headquarters operations and support (O&S) costs related to required operational testing and evaluation (T&E) conducted in support of Navy acquisition programs. The preponderance of funding provides for the annual O&S costs for day to day operations of the staff/ headquarters of COMOPTEVFOR, located in Norfolk, Virginia. (Pursuant to DoD Financial Management Regulations and Navy financial policy guidance, as a T&E activity, COMOPTEVFOR's annual support costs are funded via RDTEN vice OMN; hence, and unlike most RDT&EN programs, these funds provide for O&S costs typical of military field commands/activities). Within this project, over 1/2 of the funding supports salaries of assigned civilian personnel. The remaining funds provide for other routine support costs such as travel, IT support, supplies, and other overhead/administrative support costs. The primary metric used within the project involves support for scheduled Navy acquisition program testing and subsequent analysis and reporting of results of testing to appropriate senior Navy acquisition officials and to the Navy chain of command directly to the CNO and various OPNAV/SECNAV staff offices. The performance goal is met when all assigned/scheduled testing and reporting is supported each year. Specific test program success is measured through analytic results of testing conducted throughout the year and constant interaction with program offices, acquisition decision makers, OPNAV staff resource sponsor offices, OSD and other service T&E offices/activities, and miscellaneous other customers/stakeholders. This project also supports testing and evaluation of various Joint/multi-service programs in which the Navy shares responsibilities in support of the acquisition community. The following metrics relate directly to the funding provided and are applicable to current operations.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605865N / *Operational Test & Eval Capability*	**Project (Number/Name)** 0831 / *OPTEVFOR Support*

Number of Tests Conducted - FY12 = 100; FY13 = 100; FY14 = 110
Number of Programs Supported - FY12 = 402; FY13 = 417; FY14 = 423

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605865N / *Operational Test & Eval Capability*	Project (Number/Name) 2923 / *Navy JT&E Support*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2923: *Navy JT&E Support*	-	0.439	-	-	-	-	-	-	-	-	-	0.439
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project provides funding for Navy support of the OSD-sponsored JT&E program. This funding covers cost associated with facilities, personnel, and administrative support for T&E-focused Navy-led Joint Feasibility Studies and Joint Tests to ensure Navy compliance with requirements established by directive from the SECDEF to carry out the JT&E program. The funding is used for planning, conducting, and reporting the results of T&E-focused JT&E projects to assess the interoperability of recommendations on improvements in joint technical and operational concepts, to evaluate and validate testing methodologies having multi-service application, to assess technical or operational performance of interrelated and/or interacting systems under realistic joint operational conditions, and to provide data from joint field tests and exercises with which to validate models, simulations, and test beds. This funding is essential for Navy participation with the other services in these critical joint areas.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: JOINT TEST & EVALUATION	0.439	-	-
Articles:	-	-	-
Description: The FY14 and beyond funding has been transferred to the OMN appropriation. ***FY 2013 Accomplishments:*** - Continue to support JT&E projects as directed by the JT&E Senior Advisory Council. ***FY 2014 Plans:*** N/A ***FY 2015 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	0.439	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605865N / *Operational Test & Eval Capability*	**Project (Number/Name)** 2923 / *Navy JT&E Support*

D. Acquisition Strategy

N/A

E. Performance Metrics

This project supports testing and evaluation of various Joint/multi-service programs in which the Navy shares responsibilities in support of the acquisition community.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy												Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*					R-1 Program Element (Number/Name) PE 0605866N *I Navy Space & Electr Warfare Supt*							
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
Total Program Element	0.000	6.091	3.264	2.505	-	2.505	2.712	2.794	2.836	2.903	Continuing	Continuing
0706: *EMC & RF Mgmt*	0.000	5.576	2.911	2.505	-	2.505	2.712	2.794	2.836	2.903	Continuing	Continuing
0739: *Navy C2 Top Level*	0.000	0.515	0.353	-	-	-	-	-	-	-	-	0.868

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Project 0706, Electromagnetic Compatibility (EMC) and Radio Frequency (RF) Management Program: Develops advanced technology to identify and eliminate Electromagnetic Interference (EMI) sources from Navy systems. Supports research and development technology efforts, develops top-level plans, and supports systems in the Space and Electronic Warfare (SEW) mission area.

Project 0739, Navy Command, Control, Communications, Computers, and Intelligence (C4I) Top Level Requirements - This project provides analysis of both Fleet requirements and research and development technology to develop top-level plans and space systems in the Space and Electronic Warfare (SEW) mission area. The Space and Electronic Warfare Studies and Analysis Program (SEWSAP) supports analyses of fleet requirements and research and development technology to develop top-level plans for operating Navy Command, Control, Communications, Intelligence, Surveillance and Reconnaissance (C4ISR) and space systems in the SEW mission area.

B. Program Change Summary ($ in Millions)	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO**	**FY 2015 Total**
Previous President's Budget	9.779	3.265	4.406	-	4.406
Current President's Budget	6.091	3.264	2.505	-	2.505
Total Adjustments	-3.688	-0.001	-1.901	-	-1.901
• Congressional General Reductions	-	-0.001			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-2.664	-			
• SBIR/STTR Transfer	-0.185	-			
• Program Adjustments	-	-	-0.431	-	-0.431
• Rate/Misc Adjustments	-	-	-1.470	-	-1.470
• Congressional General Reductions Adjustments	-0.839	-	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605866N / *Navy Space & Electr Warfare Supt*	Project (Number/Name) 0706 / *EMC & RF Mgmt*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0706: *EMC & RF Mgmt*	-	5.576	2.911	2.505	-	2.505	2.712	2.794	2.836	2.903	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Electromagnetic Compatibility (EMC) and Radio Frequency (RF) Management Program. This project develops tools, processes, and algorithms to identify and mitigate EMI sources for Navy systems and platforms.

(a) It will support the Afloat Electromagnetic Spectrum Operations Program (AESOP), an automated spectrum Fleet operational capability. The application will be enhanced to comply with fleet operational requirements and streamline Strike Force frequency management processes. It will provide automated Spectrum Management (SM) tools for development of operational task communication and radar/weapon plans to support fleet deployments, exercises, and contingency operations. It will provide identification and mitigation of EMI in Navy, North Atlantic Treaty Organization (NATO), Allied, Ashore and Joint Combat Operations.

(b) It will support the Shipboard Electromagnetic Compatibility Improvement Program (SEMCIP) to identify, engineer, and evaluate effectiveness of potential EMI corrections. The program also characterizes and quantifies the operational impact of EMI problems on system's mission performance.

(c) It will support the Nuclear Electromagnetic Pulse (EMP) Survivability Program. The program assesses the EMP survivability of all mission critical systems and funds development of a hardness assurance and maintenance program. It will develop improved modeling capability to reduce hardness validation costs at delivery and over the lifetime of the system/platform. The program provides design criteria, test methodology, test limits, and survivability validation procedures for all Navy systems, ships, submarines and shore facilities.

(d) It will support Advanced Technology Concepts. The program investigates Electromagnetic (EM) environmental effects and electromagnetic spectrum techniques and technologies to provide the ability to monitor EM spectrum usage on all ships in a given strike group. The program will investigate technologies to build an EM Spectrum Common Operational Picture (COP) to detect and assess operational capability in real-time. Additional investigations will be performed to develop processes and procedures to predict the EM environment. In the out-years, these capabilities will be used to build the next generation combat system with inherent spectrum agility and self-awareness capability, further enhancing the Navy's ability to command the EM spectrum warfighting domain.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Afloat Electromagnetic Spectrum Operations Program (AESOP)	0.643	0.558	0.500
Articles:	-	-	-
FY 2013 Accomplishments:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605866N / *Navy Space & Electr Warfare Supt*	**Project (Number/Name)** 0706 / *EMC & RF Mgmt*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Researched and developed NATO/Coalition/National Spectrum requirements and coordinated results with all naval commands; updated the AESOP application requirements for the next release (version 3.1). Supported the National Broadband Plan, provided analysis system capability to support National Level recommendations. Performed test and evaluation of systems and updated spectrum radiation restrictions. ***FY 2014 Plans:*** Research fleet operations, spectrum engineering advances, open architecture and extensible mark-up language (XML) standards, and Navy and Joint standards / interfaces to align AESOP with the CNO Roadmaps, CNO's Navigation Plan for FY13-FY17, Net-centric warfare requirements, and the Joint Vision 2020. Design and develop/prototype interfaces between Navy automated spectrum planning software and feedback loops. Support experiments for testing prototypes. Plan and conduct tests of new and modified Navy equipment and calculate electromagnetic compatibility criteria; document criteria and parameters in OP-3840 and test reports. Support the National Broadband Plan, provided analysis system capability to support National Level recommendations. ***FY 2015 Plans:*** Continue research of fleet operations, spectrum engineering advances, open architecture and extensible mark-up language (XML) standards, and Navy and Joint standards / interfaces to align AESOP. Provide engineering, research, and analysis support for DoD/DoN response to President's National Broadband Plan and Spectrum Inventory Act, and their associated impacts on Navy systems. Perform power density analyses and make recommendations for spectrum sharing, interference susceptibilities, required stand-off distances for compatibility, and impact assessments from any military concessions on spectrum use. Conduct technical and regulatory analyses for "comparable spectrum" targeted for potential migration by Navy systems that are displaced through spectrum reallocation.			
Title: EMC Systems Engineering (SEMCIP)	1.000	0.831	0.643
Articles:	-	-	-
FY 2013 Accomplishments: Supported identification and characterization of Electromagnetic Interference (EMI) problems which debilitate the combat capability and operational readiness of the strike force. The primary focus was to provide support to the Navy's Air and Missile Defense Radar (AMDR) program and consolidated SATCOM/Communication stacked antenna technology. Evaluated the effectiveness of several proposed EMI solutions and initiated the coordination efforts for final integration/procurement of the required EMI fixes. ***FY 2014 Plans:*** Continue efforts to identify and characterize EMI which can debilitate the combat capability of strike force capability and operational readiness. Focus in on the fielding of Enhanced Forward Error Correction for Television Direct to Sailor (TV-DTS), SPY-3 Radar, Navy Multiband Terminal (NMT), Commercial Broadband SATCOM Program (CBSP), Ku-Band Common Data Link			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605866N / *Navy Space & Electr Warfare Supt*	**Project (Number/Name)** 0706 / *EMC & RF Mgmt*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
(CDL) and Close in Weapon System (CIWS) programs. Evaluate the effectiveness of proposed EMI solutions and coordinate for integration/procurement of final EMI fix. ***FY 2015 Plans:*** Continue efforts to identify and characterize EMI which can debilitate the combat capability of strike force capability and operational readiness. Focus in on the Navy's Next Generation Radar, EW and SATCOM programs. Evaluate the effectiveness of proposed EMI solutions and coordinate for integration/procurement of final EMI fix.			
Title: Electromagnetic Pulse (EMP) Survivability ***Articles:*** ***FY 2013 Accomplishments:*** Conducted research and developed technical standards for incorporation into the Maritime EMP Standard (i.e., MIL-STD-4023); planned for issuance to Navy commands. Performed a low level continuous wave illumination test and evaluation event on the ex-US Coast Guard Cutter (USCGC) MONHEGAN. Investigated capabilities to improve shipboard corrosion resistance and ensure reduced life cycle costs of EMP hardening materials. Collected shipboard corrosion resistance test and evaluation results on four ships by performing Grounding Effectiveness (GE) test analysis. ***FY 2014 Plans:*** Continue EMP experiments on the ex-USCGC MONHEGAN to develop new testing protocols. Investigate the development of mobile EMP testing capability. Mobile test systems would be composed of both radiating systems required for radiated susceptibility testing and pulse current injection systems required for conductive susceptibility testing. In addition, investigate potential upgrades to the Naval Surface Warfare Center Dahlgren Division (NSWCDD) Naval Ordinance Transient Electromagnetic Simulator (NOTES) EMP Facility (ashore test bed). ***FY 2015 Plans:*** Investigate and develop new testing techniques for both ashore and afloat pulse current injection testing that will support the new Maritime EMP Standard (MIL-STD-4023). Develop streamlined testing capability to support grounding effectiveness testing, that will increase repeatability, verification of test results, while reducing total cost of ownership. Implement new testing capabilities/ revised software capabilities at the Naval NSWCDD Naval Ordinance Transient Electromagnetic Simulator (NOTES) EMP Facility (ashore test bed) to meet MIL-STD-2169C threat levels.	0.771 -	0.848 -	0.662 -
Title: Advanced Technology ***Articles:*** ***FY 2013 Accomplishments:*** Demonstrated the capability to monitor Electromagnetic (EM) Spectrum usage on a ship and/or strike group in a laboratory environment. Developed a process to provide a shared Common Operational Picture (COP) of EM Spectrum usage and	1.053 -	0.674 -	0.700 -

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605866N / *Navy Space & Electr Warfare Supt*	**Project (Number/Name)** 0706 / *EMC & RF Mgmt*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
requirements. Demonstrated the capability to manage shipboard systems EM parameters to avoid Electromagnetic Interference (EMI). ***FY 2014 Plans:*** Support development of operational concepts from the CNO's Electromagnetic Maneuver Warfare (EMMW) Roadmap. Demonstrate the capability to monitor EM spectrum usage on ships in a strike group. Enhance the EM Spectrum COP to provide layers of data displays for levels of command. Publish Phase 2 of the Information Dominance Roadmap, detailing total ownership costs, and refine the action plan to identify top level Navy investments that will enable a leap-forward to provide Real-Time Spectrum Operations. ***FY 2015 Plans:*** Continue innovative development of operational concepts from the CNO's Electromagnetic Maneuver Warfare (EMMW) Roadmap. Enhance the EM Spectrum COP to provide predictive layers of data displays for levels of command. Investigate the acquisition processes, procedures, and architecture protocols to support spectrum agility within new systems and equipment. Investigate technology to enhance system and equipment future operations, allowing full EM spectrum control (i.e., emissions control (EMCON), de-confliction to preclude EMI, advanced agility capabilities).			
Title: Overseas Contingency Operations (OCO)	2.109	-	-
Articles:	-	-	-
FY 2013 Accomplishments: (a) Joint Emitters during Overseas Contingency Operations is a source of debilitating Electromagnetic Interference (EMI) to critical air operations and BMD assets. Funding will be used to expand afloat and ashore spectrum management tools to address the critical need for interoperability. USN/USMC integration promotes interoperability with the multi-national deployed forces fighting the OCO and decreases the risk of friendly fire incidents. Increased situational awareness, reduction of interference, and restored mission capability are all expected benefits of the improved processes and procedures. The requested funds will deliver a Joint capability system that allows group planning and execution, information data discovery, data interoperability, and data fusion to USN and USMC forces directly supporting OCO OPS. (b) Develops advanced technology to identify and reduce EMI sources from Navy systems and platforms. Supports both In-Theater & Pre-Deployment support. Funding to address actions taken to restore units to a desired level of combat capability. Upgrades to deploying ships and development of EMI solution for the deploying strike group. This funding will be used to evaluate and mitigate potential EMI problems that may be introduced as the fleet continues to field additional variants of combat systems and commission new ships. Timely development of EMI solutions restores combat capability lost due to EMI. Evaluation of short-term and long-term EMI fix evaluation on deploying ships is required to determine optimum EMI solution. ***FY 2014 Plans:***			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605866N / *Navy Space & Electr Warfare Supt*	**Project (Number/Name)** 0706 / *EMC & RF Mgmt*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
N/A ***FY 2015 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	5.576	2.911	2.505

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

An acquisition strategy is not required.

E. Performance Metrics

Performance metrics will consist of quarterly program reviews.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605866N / *Navy Space & Electr Warfare Supt*	Project (Number/Name) 0739 / *Navy C2 Top Level*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0739: *Navy C2 Top Level*	-	0.515	0.353	-	-	-	-	-	-	-	-	0.868
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project provides analysis of both Fleet requirements and research and development technology, to develop top-level plans and space systems in the Space and Electronic Warfare (SEW) mission area. The Space and Electronic Warfare Studies and Analysis Program (SEWSAP) supports analyses of fleet requirements and research and development technology to develop top-level plans for operating Navy Command, Control, Communications, Intelligence, Surveillance and Reconnaissance (C4ISR) and space systems in the SEW mission area. Supports Navy Information Dominance.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Navy C2 Top Level	0.515	0.353	-
Articles:	-	-	-
FY 2013 Accomplishments: - Continued to initiate and complete studies supporting resource and requirement decisions in the PPBE System. Conduct FORCEnet/Information Dominance Fleet experiments; FORCEnet/Information Dominance Architecture selection; evaluation of Tactics, Techniques, and Procedures (TTP) and Research, Development, Test, and Evaluation (RDT&E) efforts with FORCEnet/ Information Dominance requirements. - Initiated evaluation of Modeling and Simulation (M&S) tools and scenarios.			
FY 2014 Plans: - Continue to initiate and complete studies supporting resource and requirement decisions in the PPBE System. Conduct FORCEnet/Information Dominance Fleet experiments; FORCEnet/Information Dominance Architecture selection; evaluation of TTP and Research, Development, Test, and Evaluation (RDT&E) efforts with FORCEnet/Information Dominance requirements. - Continue and complete evaluation of M&S tools and scenarios.			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	0.515	0.353	-

C. Other Program Funding Summary ($ in Millions)

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605866N / *Navy Space & Electr Warfare Supt*	**Project (Number/Name)** 0739 / *Navy C2 Top Level*

C. Other Program Funding Summary ($ in Millions)

Remarks

D. Acquisition Strategy

An acquisition strategy is not required.

E. Performance Metrics

Conduct studies and report plans and analysis of Fleet requirements for operating Navy C4ISR and space systems in the space, electronic warfare, and information dominance mission areas.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*					R-1 Program Element (Number/Name) PE 0605867N *I Space & Elec War Surv/Recon*							
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
Total Program Element	0.000	7.453	7.134	8.325	-	8.325	8.179	7.892	8.074	8.263	Continuing	Continuing
1034: *TAC SAT Recon Office*	0.000	7.453	7.134	8.325	-	8.325	8.179	7.892	8.074	8.263	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

(U) Link Crimson (Navy Tactical Exploitation of National Capabilities (TENCAP)) is a congressionally directed to conduct space-related R&D in order to field integrated national-to-tactical system capabilities in response to emergent fleet requirements tied to OPLANs with emphasis on PACOM and CENTCOM. TENCAP's mission is to enable delivery of timely and relevant National Systems data to naval and maritime tactical users. TENCAP responds to the fleet's top, strategically important capability gaps within National systems and is the Navy's primary interface with the National Reconnaissance Office (NRO) and national agencies for the rapid fielding (12-18 months) of capabilities. These include advanced sensors, onboard and ground processing, and integrated national-to-tactical information fusion capabilities. Link Crimson supports operational missions in Anti-Submarine Warfare (ASW), Integrated Air and Missile Defense, Mine Warfare (MIW), Precision Strike, Maritime Domain Awareness (MDA), and Intelligence, Surveillance, and Reconnaissance (ISR) managementt / Battlespace Awareness (BA) via multi-source fusion and advanced data analytics.

(U) This program is funded under Budget Activity 6 because it supports the operations and installations required for general research and development. Program baseline will also address research and development on Strategic Signals Collection and Exploitation; Undersea Warfare; Counter Unmanned Air Systems; Processing, Exploitation, and Dissemination; Commercial Navigation Radar Detect and Exploit; Open Ocean Surveillance; Threat Geo-location; and Foreign Command & Control Exploitation. Link Crimson fields operational prototypes in order to test new capabilities in a real world environment in direct coordination with the operational user. Link Crimson holistically develops warfighting capabilities by synchronizing insertion of technologies with existing Navy, joint, and national agency programs. Additional detailed information is available at a higher level of classification.

(U) Project 1034: Established to exploit all National and Service sensor systems to improve tactical support to Fleet operational commanders. Project also supports equipment upgrades, training and Fleet exercises which provide the venue for testing modifications to existing programs.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy					Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy* / BA 6: *RDT&E Management Support*		R-1 Program Element (Number/Name) PE 0605867N / *Space & Elec War Surv/Recon*			
B. Program Change Summary ($ in Millions)	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO**	**FY 2015 Total**
Previous President's Budget	8.000	7.134	8.520	-	8.520
Current President's Budget	7.453	7.134	8.325	-	8.325
Total Adjustments	-0.547	-	-0.195	-	-0.195
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	-	-	-0.195	-	-0.195
• Congressional General Reductions Adjustments	-0.547	-	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605867N / *Space & Elec War Surv/ Recon*	Project (Number/Name) 1034 / *TAC SAT Recon Office*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
1034: *TAC SAT Recon Office*	-	7.453	7.134	8.325	-	8.325	8.179	7.892	8.074	8.263	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

(U) Link Crimson (Navy Tactical Exploitation of National Capabilities (TENCAP)) is congressionally directed to conduct space-related R&D in order to field integrated national-to-tactical system capabilities in response to emergent fleet requirements tied to OPLANs with emphasis on PACOM and CENTCOM. TENCAP's mission is to enable delivery of timely and relevant National Systems data to naval and maritime tactical users. TENCAP responds to the fleet's top, strategically important capability gaps within National systems and is the Navy's primary interface with the National Reconnaissance Office (NRO) and national agencies for the rapid fielding (12-18 months) of capabilities. These include advanced sensor improvements to onboard and ground processing, and integrated national-to-tactical collection and fusion capabilities. Link Crimson supports operational missions for Anti-Submarine Warfare (ASW), Integrated Air and Missile Defense, Mine Warfare (MIW), Precision Strike, Maritime Domain Awareness (MDA), enhanced Battlespace Awareness (BA) and integrated fires via multi-source data fusion architectures and advanced analytics.
(U) This program is funded under Budget Activity 6 because it supports the operations and installations required for general research and development. Program baseline will also address R&D on foreign command and control (C2) Strategic Signals Collection and Exploitation; Undersea Warfare; Counter Unmanned Air Systems (passive and active measures); Processing, Exploitation, and Dissemination; low power Commercial Navigation Radar Detect and Exploit; Open Ocean and wide-area Surveillance; and Threat Geo-location. Link Crimson fields operational prototypes in order to test new capabilities in a real world environment in direct coordination with the operational user. Link Crimson holistically develops warfighting capabilities by synchronizing insertion of technologies with existing Navy, Joint, and national agency program, as well as related operational CONOPS and operator training. Additional detailed information is available at a higher level of classification.
(U) Project 1034: Established to exploit all National and Service sensor systems to improve tactical support to Fleet operational commanders. Project also supports equipment upgrades, training and Fleet exercises which provide the venue for testing modifications to existing programs.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Anti-Submarine Warfare (ASW)	0.475	0.500	0.520
Articles:	-	-	-
Description: Develop a holistic ASW capability, integrating all ASW sensors (tactical, theater, national) via one integrated architecture and CONOPS for Tasking, Collection, Processing, Exploitation and Dissemination (TCPED). Field automated TCPED systems to enable rapid dissemination of ASW/MIW data to fleet units and MOCs.			
FY 2013 Accomplishments: Additional details with respect to this line item are held at a higher classification.			
FY 2014 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605867N / *Space & Elec War Surv/ Recon*	**Project (Number/Name)** 1034 / *TAC SAT Recon Office*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Additional details with respect to this line item are held at a higher classification. ***FY 2015 Plans:*** Additional details with respect to this line item are held at a higher classification.			
Title: Multi-Int. Data Integration and Advanced Analytics ***Articles:*** ***Description:*** Field a Naval Tactical Cloud architecture scaled to all afloat CRUDES, SUBFOR, Large Deck Carriers, and selected airborne ISR platforms -- leveraging existing COTS/GOTS technologies. Objective is to integrate and be able to fuse data and analytic services working across all ISR sensors, C2 decision-making systems, and Combat Systems. ***FY 2013 Accomplishments:*** Additional details with respect to this line item are held at a higher classification. ***FY 2014 Plans:*** Additional details with respect to this line item are held at a higher classification. ***FY 2015 Plans:*** Additional details with respect to this line item are held at a higher classification.	2.000 -	1.000 -	1.400 -
Title: Open Ocean Surveillance (OOS) ***Articles:*** ***Description:*** Develop and field maritime specific ISR capabilities that leverage global coverage of GEOINT /ELINT systems. Focus on automatic identification and geolocation of Vessels of Interest and other targets of interest. ***FY 2013 Accomplishments:*** Additional details with respect to this line item are held at a higher classification. ***FY 2014 Plans:*** Additional details with respect to this line item are held at a higher classification. ***FY 2015 Plans:*** Additional details with respect to this line item are held at a higher classification.	2.700 -	2.134 -	2.500 -
Title: Strategic Signals and Unmanned Systems ***Articles:*** ***Description:*** Exploit strategically important foreign Command and Control systems to support top fleet OPLAN's for PACOM and CENTCOM. 2. Support improved Indications & Warning of adversary Unmanned Aircraft System (UAS). Support	1.428 -	2.400 -	2.805 -

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605867N / *Space & Elec War Surv/ Recon*	**Project (Number/Name)** 1034 / *TAC SAT Recon Office*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
the development and improvement of Navy's Counter-UAS capabilities across the Joint integrated kill chain (surveillance, identification, and negation). ***FY 2013 Accomplishments:*** Additional details with respect to this line item are held at a higher classification. ***FY 2014 Plans:*** Additional details with respect to this line item are held at a higher classification. ***FY 2015 Plans:*** Additional details with respect to this line item are held at a higher classification.			
Title: National-to-Tactical Payload Integration ***Articles:*** ***Description:*** Develop capability integrating sensor payload processing, communications, and cryptographic security within a reconfigurable mission package for all unmanned, manned, and unattended ISR platforms (air, surface, subsurface). SRP SWAP offers several orders of magnitude less Space, Weight and Power (SWaP). ***FY 2013 Accomplishments:*** Additional details with respect to this line item are held at a higher classification. ***FY 2014 Plans:*** Additional details with respect to this line item are held at a higher classification. ***FY 2015 Plans:*** Additional details with respect to this line item are held at a higher classification.	0.350 -	0.600 -	0.600 -
Title: Precision Fires & Geolocation ***Articles:*** ***Description:*** Support and improve the interoperation of national and tactical sensor systems to perform precision geolocation of SIGINT related emitters. Improve the timely and efficient use of tactical imagery to support precision strike targeting and imagery analysis. Improve precision strike targeting through the use of Advanced NTM Imagery. ***FY 2013 Accomplishments:*** Additional details with respect to this line item are held at a higher classification. ***FY 2014 Plans:***	0.500 -	0.500 -	0.500 -

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605867N / *Space & Elec War Surv/ Recon*	**Project (Number/Name)** 1034 / *TAC SAT Recon Office*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Additional details with respect to this line item are held at a higher classification. ***FY 2015 Plans:*** Additional details with respect to this line item are held at a higher classification.			
Accomplishments/Planned Programs Subtotals	7.453	7.134	8.325

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not Applicable

E. Performance Metrics

Not Applicable

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy	Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0605873M *I Marine Corps Program Wide Supt*

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	17.352	24.054	17.866	-	17.866	18.768	19.712	20.107	21.072	Continuing	Continuing
0030: *Studies & Analysis/MC*	0.000	5.132	6.049	4.751	-	4.751	5.249	5.759	5.866	5.083	Continuing	Continuing
0033: *OT&E Support*	0.000	7.846	11.720	11.866	-	11.866	12.133	12.409	12.661	14.372	Continuing	Continuing
2330: *Chem Bio Consequence Mgmt*	0.000	1.003	2.660	1.249	-	1.249	1.386	1.544	1.580	1.617	Continuing	Continuing
2930: *Phase 0 Activities*	0.000	3.371	3.625	-	-	-	-	-	-	-	-	6.996

The FY 2015 OCO Request will be submitted at a later date.

Note

Project 2930 Phase 0 Activities (Phase A) has been terminated in FY2015 and beyond.

A. Mission Description and Budget Item Justification

This program element (PE) provides the analytical foundation for the Marine Corps Studies System (MCSS), including mandated Mission Area Analyses and Cost and Operational Effectiveness Analyses. The MCSS is the front end of the Marine Corps' acquisition system. This PE also supports the material acquisition process as follows: managing the Marine Corps Operational Test and Evaluations (OT&E); providing Chem Bio Consequence Management of capabilites for Weapons of Mass Destruction (WMD) incident response forces; and conducting Phase A activities to investigate potential material solutions that validate needs, program costs, business decisions, and prevent undue delays in pursuing priority requirements.

B. Program Change Summary ($ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	18.490	24.082	23.716	-	23.716
Current President's Budget	17.352	24.054	17.866	-	17.866
Total Adjustments	-1.138	-0.028	-5.850	-	-5.850
• Congressional General Reductions	-	-0.028			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.082	-			
• SBIR/STTR Transfer	-0.625	-			
• Program Adjustments	-	-	-1.715	-	-1.715
• Rate/Misc Adjustments	-0.001	-	-4.135	-	-4.135

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy					Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*		R-1 Program Element (Number/Name) PE 0605873M *I Marine Corps Program Wide Supt*			
• Congressional General Reductions Adjustments	-0.430	-	-	-	-

Change Summary Explanation

The funding increase from FY13 to FY14 supports the MCOTEA Enhancement and reflects compliance with OFPP Policy Letter 11-01 by preserving inherently governmental and critical OT&E capability.

The funding decrease from FY14 to FY15 is due to the termination of funding for Phase 0 Activities.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605873M / *Marine Corps Program Wide Supt*	Project (Number/Name) 0030 / *Studies & Analysis/MC*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0030: *Studies & Analysis/MC*	-	5.132	6.049	4.751	-	4.751	5.249	5.759	5.866	5.083	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Operations Analysis Division (OAD) is the Marine Corps delegated authority for operations research, analytic support, and studies management. It provides critical support to the operating forces and the Combat Development System by blending a comprehensive understanding of military operations with advanced analytic and decision-making tools. Analysis includes operations research methodologies such as statistical analysis, multi-objective decision methods, optimization, cost analysis, and a wide range of computer-based models and combat simulations. OAD analysts often develop novel tools and solution methodologies to accomplish the mission. Recent innovations in analysis of amphibious operations, Irregular Warfare (IW), and Counter-Improvised Explosive Device (C-IED) serve as examples of OAD expanding the state-of-the-art in operations research methods. These tools are employed to assist the Commanding General (CG), Marine Corps Combat Development Command (MCCDC) in his mission of creating and maintaining combat-ready Marine Air Ground Task Force (MAGTFs). OAD is also the Marine Corps authority on previous analytical work done throughout the Joint Analytical Community, and leverages emerging methods and findings to solve problems facing the Corps. The division's primary mission is to support decisions pertaining to weapon systems, strategic personnel and training management decisions, equipment acquisition, and resource allocation.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Studies & Analysis/MC	5.132	6.049	4.751
Articles:	-	-	-
Description: As established and directed under Marine Corps Order 3902.1D, the Marine Corps Studies System (MCSS), assigned solely to Operations Analysis Division (OAD), Marine Corps Combat Development Command, provides research and analyses to ensure a greater understanding of issues and alternatives concerning organizations, tactics, doctrine, policies, force plans, strategies, procedures, intelligence, weapon selection, systems' programs and resource allocation. In the MCSS, these topics are treated in both the Service and Joint contexts. Using the MCSS, the Marine Corps nominates, approves, commences, manages and distributes the resultant analytical products. MCSS study and analysis nominations are evaluated and selected on a quarterly basis. Research conducted produces comprehensive and integrated analyses aligned to Senior Leadership's requirements and decision timelines. A "call" for studies occurs quarterly and is targeted to a particular audience that understands USMC current and future mission requirements and the need for the comprehensive analyses that meet the Commandant's Strategic Goals, saves lives, and utilizes funds efficiently.			
FY 2013 Accomplishments:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605873M / *Marine Corps Program Wide Supt*	**Project (Number/Name)** 0030 / *Studies & Analysis/MC*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
* Continued: Synthetic Theater Operations Research Model (STORM): Important campaign-level analysis model for Joint Analysis community. Marine Corps warfare enhancements ensure STORM is representative of full-spectrum capabilities of joint force meeting the collaboration and integration goals of the Department of Defense (DoD) Modeling & Simulation (M&S) Strategic Vision. * Continued: Force Mobility Analysis Support Tool (FMAST III): Commandant chartered a Force Structure Review Group (FSRG) that examined organization, training, and equipping issues associated with task force organization in global security arena. Measures end-strength, training cycle, and dwell-time impacts on the Marine Corps manpower, operations, and support functions. * Continued: Intelligence Surveillance & Reconnaissance (ISR) & Shaping Operations Study: Investigated potential improvement to the organizational structure and the command relationships of U.S. Marine Corps Intelligence, Surveillance, and Reconnaissance forces for future Marine Air Ground Task Force (MAGTF) access, entry, and enabling operations across the range of military operations. * Continued: 59XX Occupational Field Command and Control Electronics Maintenance Manpower and Personnel Study: Reviewed options to mitigate any manpower shortfalls through: changes in structure; re-alignment of tasks; and provided recommendations for compensated or uncompensated structure changes. Evaluated, reviewed and allocated current tables of organization (T/O) structure with proposed Avation Command and Control (AC2) Family of Systems (FoS) approved acquisition objectives (AAO). Identified any differences in the equipment-to-personnel association when compared to the new equipment requirements by conducting job task and workload analysis and determine the maximum capacity [AAO] current structure can support. * Continued: Joint Irregular Warfare Analytic Baseline (JIWAB) Support to Irregular Warfare Executive Steering Committee (IW ESC): JIWAB study began in August 2010 as a way forward on addressing Irregular Warfare (IW) analysis at the strategic level and provided analytic support to the Irregular Warfare Executive Steering Committee (IW ESC) within the Department of Defense (DoD). This effort replaced products developed in previous stages of the Joint Irregular Warfare Analytic Baseline (JIWAB) study and used them to conduct a scenario-based assessment of IW-related capabilities. Analysts used the JIWAB scenario to 1) produce an integrated DoD and interagency (IA) CONOPS in response to the scenario; 2) assessed the effectiveness of the integrated CONOPS through a war game; and 3) assessed the IW capability implications from the war game results. * Continued: The Contribution of Depot - Level Maintenance in Enabling Marine Corps Warfighting Capability Study: The Office of the Deputy Assistant Secretary of Defense for Maintenance Policy and Programs (DASD (MPP)) issued specific guidance for POM FY14-18 that required Services to provide an explanation of the linkage of depot-level maintenance requirements and funding to warfighting capability. Study developed a standard scientific and quantifiable methodology that can be applied			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605873M / *Marine Corps Program Wide Supt*	**Project (Number/Name)** 0030 / *Studies & Analysis/MC*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
periodically via a modeling tool to collect and analyze depot maintenance requirements, production and cost data and assess the benefits of depot maintenance within the context of deployable operational force modules that are directly relatable to Marine Corps Title X and Marine Corps Service Campaign Plan (MCSCP) requirements. * Continued: Assessing the Impact of the Marine Expeditionary Equipment Shortfalls on Mission Performance Phase II: Continued existing work on the development of the MAGTF Equipment Structural Assessment (MESA) tool, an automated system designed to assess the impact of Marine Expeditionary Unit (MEU) equipment shortfalls on mission performance by: (1) extending the tool developed in Phases 1 and 2 of this project to accommodate two additional mission types; and (2) test the tool at the Marine Corps Expeditionary Warfare School (EWS) at Quantico, Virginia. * Continued: Cannon Cluster Munition Capability Gap and Requirements Analysis Study: The M483A1 155mm Dual-Purpose Improved Conventional Munitions (DPICM) and the M864 155mm Extended-Range DPICM projectiles contain submunitions which have an unexploded ordnance (UXO) rate greater than one percent and which therefore do not meet the UXO criteria established by DoD Policy Memorandum dated 19 June 2008 (DoD Policy on Cluster Munitions and Unintended Harm to Civilians); as a result these projectiles will no longer be authorized for use after 2018. Study confirmed that a capability gap exists from the resulting loss of the M483A1/M864 projectiles and provided data analysis/rationale to support requirements outlined in the Capabilities Production Document (CPD) for a replacement capability. * Continued: Facilities Sustainment and Facility Service Life Study: Obtained information for testing and setting coefficients in sustainment models. These planning factors are used in the development of Marine Corps Installations and Logistics (I&L's) Installations, Program Execution Budget (PEB), Base Operating Support levels, and the Marine Corps' infrastructure management program to support maintenance and operations readiness. * Continued: COMBAT XXI Naval Postgraduate School (NPS) Modeling, Virtual Environments, and Simulation (MOVES) Institute Support: MOVES provided "on call" support to Operations Analysis Division (OAD) to assist in finding solutions to problems encountered using COMBATXXI. Expected was concentrated on problems related to the use of COMBATXXI in support of the work being done at the Mission Area Analysis (MAA) Branch of OAD for the Marine Personnel Carrier (MPC) requirements analysis and subsequent studies. Support provided included help with understanding specific details of the inner workings of COMBATXXI, providing input on how best to use the system and help with tracking down errors when using the system. * Continued: COMBAT XXI: Behavior Development and Technical Support: Analytical modeling capability bringing together the Naval Simulation System (NSS) for sea strike and COMBAT XXI for littoral and land warfare modeling. COMBAT XXI is a high-resolution combat simulation currently under development at TRAC White Sands Missile Range intended to support modern modeling needs with a flexible, object-oriented implementation			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605873M / *Marine Corps Program Wide Supt*	**Project (Number/Name)** 0030 / *Studies & Analysis/MC*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
* Continued: The Multi-Functional Operations Center (MFOC) Study Phase II: Focused on recovering and organizing the existing architecture diagrams and concepts of operations (CONOPs) for Marine Air Command and Control Systems (MACCS) agencies produced by the Deputy Commandant for Aviation (DC[A]). Provided data in a navigable, searchable, understandable archive that identified gaps in the documentation with the goal comparing current doctrine/CONOPs and Department of Defense Architecture Framework (DoDAF) requirements, and identifying any significant gaps and/or inconsistencies with regard to content, format, vernacular, and methodology. The results used by DC Aviation and the Aviation Expeditionary Enablers, Headquarters Marine Corps, Aviation (APX) staff to help inform decisions regarding the merger of the Marine Air Control Squadron (MACS) and Marine Air Support Squadron (MASS) into a multi-functional air command and control node. * Continued: Marine Corps Expeditionary Energy Modeling and Simulation and Utility Enhancement: On 13 Aug 2009, the Commandant of the Marine Corps (CMC) declared energy a top priority. The USMC Expeditionary Energy Office (E2O) was created in October of that year to "analyze, develop, and direct the Marine Corps' energy strategy in order to optimize expeditionary capabilities across the war fighting functions." The E2O also has a responsibility to "advise the Marine Requirements Oversight Council (MROC) on all energy and resource related requirements, acquisitions, and programmatic decisions." To that end, in September 2010 E2O initiated a study under the guidance of the Operations Analysis Division, MCCDC (OAD), to assess the impact of more efficient Energy Conservation Units (ECUs) on energy consumption within a theater. The study led to the development of a prototype model, the MAGTF Power and Energy Model (MPEM), a transparent and repeatable process for measuring, evaluating and presenting the energy-related performance of current Marine Forces. OAD selected the Analytical Framework for USMC Expeditionary Energy Investment Study to establish confidence in USMC Performance/Pricing Models, via Verification, Validation, and Accreditation (VV&A) and use this as a prerequisite to using the data/output in POM development. * Completed: Improvised Explosive Device (IED) Detection and Prevention Tool (IDAPT): Developed a multi-attribute decision model that evaluated mixes of infantry anti-armor weapons for both state-on-state warfare (typified by a significant armored threat) and hybrid conflicts (typified by a negligible armored threat). * Completed: Prepositioning Capabilities Based Assessment (CBA): Conducted a prepositioning CBA to develop a balanced prepositioning strategy that integrated maritime, ashore, CONUS, and OCONUS prepositioning capabilities for deployment and employment of scalable Naval Forces in support of projected Combatant Commander Requirement. * Completed:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605873M / *Marine Corps Program Wide Supt*	**Project (Number/Name)** 0030 / *Studies & Analysis/MC*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Combat Logistics Force (CLF) Logistics Support to Afloat USMC Units: Linked challenges facing the Marine Corps through increased Marine Expeditionary Units (MEU) mission requirements while at the same time realizing potential amphibious fleet reductions over the midterm. Study provided specific recommendations on range and depth of materiel for stocking aboard CLF ships as well as standardized processes for replenishment support to embarked MEU units. * Completed: Marine Corps Information Operation Center (MCOIC) Marine Information Operations (IO), Military Information Support Operations (MISO) Development Inventory Study: Study utilized Navy Computer Adaptive Personality Scales (NCAPS) to create an inventory for IO and MISO Marine development. This inventory is an integral part of the IO and MISO development process for potential Officer and Enlisted Marines serving as IO and MISO positions across the Marine Corps, along with current cognitive tests already in place. Study focused on developing an Information Operations and MISO Marine profile encompassing both cognitive and non-cognitive factors and incorporated into a model for assessment and development. Profile allows the Marine Corps to identify those Marines who are likely to be successful in Information Operations and MISO related fields, those who need a greater depth of screening and training, and those who are likely to succeed elsewhere. ***FY 2014 Plans:*** The Marine Corps Studies System (MCSS) plan for FY14 is to focus on requirements that support military forces in demanding or hostile environments in Afghanistan, Yemen, Horn of Africa (HOA), the Philippines, and Colombia by rapidly researching, analyzing, developing and delivering comprehensive products that support decisions regarding items such as tactical sensors and unmanned vehicles, personal and physical protection, user analytical tools and reference guides, weapons, sights, and ammo modifications. As U.S. forces are withdrawn from Afghanistan, MCSS will continue to address force protection needs for the remaining forces, as well as develop solutions that may assist with the Afghan transition. Additionally, as Marine Corps field components begin to increase their regional operations tempo in other parts of the world MCSS will address operational and analytical requirements requested. Special emphasis will be for the Theater Special Operations Forces (SOF) in Africa and to support Theater SOF in the Pacific in support of the National Strategy to shift focus towards the Pacific. Develop an enhanced integrated analytic platform that enables analysis of data sources to support near real-time decision making, support new operational applications, and geographic locations. Upload, maintain, and verify a data analysis program for rapid access and understanding of collections of studies and research reports. Continue development of a program that provides the commander/executive decision maker with information in both real-world and exercise scenarios within the joint, interagency, intergovernmental, and multinational organizations (JIIM) environment. Continue Additional Phases of all efforts initiated in FY13.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605873M / *Marine Corps Program Wide Supt*	**Project (Number/Name)** 0030 / *Studies & Analysis/MC*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
* Continue: Force Mobility Analysis Support Toolkit(FMAST) Phase IV: Follow-on generates notional Marine Air Ground Task Forces (MAGTFs) that are sufficiently detailed (in terms of grade, rank, and MOS) to inform Table of Organization and Equipment Change Requests (TOECRs) to the Marine Corps' Total Force Structure; explicitly maps the elements of notional MAGTFs based on the 2017 MEB to the Total Force Structure; objectively and accurately evaluates the Marine Corps' capacity to project force in terms of the supply and demand for military personnel and equipment; and allows the Marine Corps to measure, with unprecedented accuracy, the degree to which its Total Force Structure is in harmony with its national security obligations. * Continue: Aligning Readiness Reporting and Force Sourcing Methodologies: The goal of this study is to review existing service readiness reporting policy in order to ensure alignment with other force management functions and influence resource allocation within the operating force. * Continue: Amphibious Lift Support to the USMC: Determine whether future amphibious lift will be able to support Marine Corps requirements. * Continue: Amphibious Shipping Availability Risk Assessment Follow On: The goal of this follow on study is to extend the evaluation of operational risk in view of the anticipated ALT POM 15 reductions. * Continue: An Analytical Study of USN's Amphibious Ship Capacity compared to USMC's Operational/Training Demand: To provide an analytical overview of USN's capacity to consistently provide amphibious shipping in support of Marine Corps training/ operational demand. * Continue: Analysis of Alternative Operational Lift in Support of Marine Expeditionary Brigade (MEB) Missions: The study will examine the feasibility and define the concept of operations (CONOPS) of employing alternative operational lift assets in support of 1st Marine Expeditionary Brigade (MEB) operations across the range of military operations (ROMO). * Continue: Cost Comparison of Full versus Partial Reset of Ground Equipment Returning from OEF: The goal of the research is to examine long-run cost benefit of performing expensive reset maintenance ("zero miles/zero hours" program) on United States Marine Corps (USMC) ground equipment returning from Operation Enduring Freedom (OEF). * Continue: Effects of Increased Equipment Footprint: Determine whether the Marine Corps' expeditionary capability is being degraded, and if so, the extent of that degradation, due to the increased equipment footprint of the Operating Forces.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605873M / *Marine Corps Program Wide Supt*	**Project (Number/Name)** 0030 / *Studies & Analysis/MC*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
* Continue: Integrating Women into the Infantry: Assess and analyze the full scope of the impacts of integrating women into the Infantry. * Continue: Marine Corps Chemical, Biological Radiological and Nuclear (CBRN) Defense Consumable Equipment and Medicants Requirement Study: This study should build upon the late 2012 study by evaluating biological weapons effects, using same scenario to determine CBRN equipment consumption rates for expendable CBRND equipment. * Continue: Preparing for the next natural disaster in Okinawa: The purpose of this study is to examine USMC coordination with the other U.S. forces on Okinawa, the Japan Self Defense Force (JSDF), Japan Coast Guard, and representatives from local communities on Okinawa in the aftermath of a natural disaster. * Continue: Right Sizing Ground Simulation based Training Capabilities: Assess the Marine Corps' ground simulation based training capabilities in order to influence policy regarding the mix of live and simulation based training that effectively trains to standard while optimizing costs. * Initiate: As directed by MROC 3902.1D all approved second and third quarter FY14 studies and Ad hoc studies as directed by the Marine Corps Commandant, Assistant Commandant and Unit Commanders as well as Office of the Secretary of Defense and Joint Chiefs of Staff. ***FY 2015 Plans:*** MCSS will refocus, redefine and conduct increased operational and strategic study and analyses efforts in FY15 as a result of emerging unrest and terrorist activities in the Pacific (MARFOR PAC), Horn of Africa (HOA), African Command (AFRICOM), and the Middle East (MARFOR CENT). Analysis provided is crucial to Commands managing operational and manpower resources under future budget constraints. * Initiate: Studies in formulation: Kinetic Activity and other events over time and space; Retrograde and redeployment modeling and simulation; Host nation activity; Counter-narcotics event tracking; Personnel status tracking and analysis and military force cap; Equipment effectiveness, such as IED Detector Dogs, Holley Stick, Ground Based Operational Surveillance, Mine Rollers; Unit effectiveness, specifically pre-deployment training vs. Afghanistan attacks and casualties; MEDEVAC placement and casualty analysis; Explosive Ordinance Disposal Team usage; Queuing at entry control points. * Initiate: Planned Study Areas Include: Combined Joint Task Forces, Horn of Africa (CJTF-HOA) Theater Security Cooperation (TSC) mission data collection and assessment support; East Africa Campaign Plan (EACP) assessments support; AFRICOM Theater Campaign Plan assessments support; Effectiveness analysis of the Improvised Explosive Device (IED) database; HOA			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605873M / *Marine Corps Program Wide Supt*	**Project (Number/Name)** 0030 / *Studies & Analysis/MC*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Auxiliary Force Commander; Coordination with Marine Forces Africa liaison element at CJTF-HOA; Assessments Section lead for the CJTF-HOA Internal Organizational Inspection Program; Support of the Somalia Operational Planning Team. * Continue efforts initiated in FY14 and initiate new efforts as approved by the Marine Corps Call For Studies.			
Accomplishments/Planned Programs Subtotals	5.132	6.049	4.751

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Provide analytical documentation and support to decision makers for resolution of current and future operational and logistical issues identified by operating forces. Utilize OAD Subject Matter Experts (SME), Marine Corps University, and Naval Post Graduate School to conduct studies and analysis projects in basic and applied research and advanced technology development. Develop and maintain a current operations analysis reachback network with other government and Coalition agencies such as Center for Army Analysis, JIEDDO J9, Joint Trauma Analysis and Prevention of Injury in Combat (JTAPIC) program, The Technical Cooperation Program (TTCP), NATO Systems Analysis & Studies (SAS), etc.

Analyses results are employed to assist the Commandant, Assistant Commandants, Unit Commanders and the Commanding General (CG), Combat Integration Division, Marine Corps Combat Development Command (CD&I, MCCDC) with the mission; a continuous program of mission area analyses, formal studies, rapid response analytic efforts, and the supervision of research projects fulfill this mission. OAD provides combat analyst assessment teams for national emergencies and contingencies; is responsible for initiating, conducting or supervising all official Marine Corps studies; maintaining official Marine Corps scenarios; and participating in and reviewing the efforts of external activities such as the Office of Secretary of Defense and the Joint Staff. Baseline analysis supports Mission Capability Packages (MCPs), Investment Strategy, Joint Capability Areas (JCAs), and the Naval Strategic Plan providing the DoN assessments for future force development. Operations data and analysis support provided to USMC organizations -- MCCDC, Marine Corps Intelligence Activity (MCIA), Marine Corps Warfighting Lab (MCWL), Marine Corps Central Command (MARCENT), Systems Command, Training and Education Command (TECOM). The Modeling and Simulation Analytical Toolkit (MSAT) work is to support analysis involving irregular warfare missions executed in a future Defense Planning Guidance scenario. These missions include information operations, offensive tactical and operational CYBER operations, foreign internal defense, special direct action arising from intelligence gathered from HUMINT and technical (SIGINT, CYBER) means.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605873M / *Marine Corps Program Wide Supt*	Project (Number/Name) 0033 / *OT&E Support*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0033: *OT&E Support*	-	7.846	11.720	11.866	-	11.866	12.133	12.409	12.661	14.372	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Marine Corps Operational Test and Evaluation Activity (MCOTEA) supports the material acquisition process by managing the Marine Corps Operational Test (OT) programs for Acquisition Categories (ACAT) I through ACAT IV (less OT of manned aircraft) and performs other functions that may be directed by the Commandant of the Marine Corps. The primary purpose of Operational Test and Evaluation (OT&E) is to provide information to the Milestone Decision Authority (MDA) regarding the Operational Effectiveness (OE) and Operational Suitability (OS) of the system addressed at a decision point. MCOTEA must ensure that the Marines in the Operating Forces receive the very best possible equipment and support. MCOTEA must also ensure each system proposed for acquisition is tested adequately, evaluated objectively and reported independently.

Marine Corps Operational Test and Evaluation Activity (MCOTEA) is the only unit that provides the Marine Corps with required operational test and evaluation (OT&E) capability, ensuring the Marine Corps is compliant with laws and regulations, and ensuring that training and equipment are operationally effective, relevant, and suitable. Additionally, MCOTEA's early involvement, coordination, and oversight in developmental testing and evaluation of new combat and combat support systems ensures that our Marines are the best trained, and have the best equipment, with the lowest test costs for taxpayers. Finally, MCOTEA's support of rapid acquisitions ensures that Marines in the fight are supported with the newest and most advanced equipment and that the Marine Corps is compliant with regulations.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: MCOTEA	7.846	8.555	11.866
Articles:	-	-	-

FY 2013 Accomplishments:

MCOTEA evaluated, quantified, and reported the operational effectiveness, suitability, and survivability of planned acquisitions to meet warfighter capabilities and provided Milestone Decision Authority (MDAs) (a comprehensive understanding of operational risk associated with ACAT programs).

FY 2014 Plans:

Major programs supported by this account include the Enhanced Combat Helmet (ECH), Shoulder-Launched Multipurpose Assault Weapon Mod 02, (SMAW M2), Light Assault Vehicle-Anti-Tank Modernization (LAV-ATM), Joint High Speed Vessel (JHSV), Joint Light Tactical Vehicle (JLTV), and Ground/Air Task Oriented Radar (G/ATOR). MCOTEA funding increased in the proposed budget for FY 2014 to support the transition to an inherently governmental workforce with planned growth of 22 FTEs in

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605873M / *Marine Corps Program Wide Supt*	**Project (Number/Name)** 0033 / *OT&E Support*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
technical and analytical skill sets. This in line with Director, Operational T&E and Department of DoD policy initiatives that began in FY 2012 to broaden MCOTEA involvement in OT&E. ***FY 2015 Plans:*** MCOTEA is evaluating, quantifiying, and reporting the operational effectiveness, suitability, and survivability of planned acquisitions to meet warfighter capabilities and will be providing Milestone Decision Authority (MDAs) (a comprehensive understanding of operational risk associated with ACAT programs).			
Title: MCOTEA ENHANCEMENT ***Articles:*** ***FY 2013 Accomplishments:*** N/A ***FY 2014 Plans:*** Enhancement reflects compliance with Office of Federal Procurement (OFPP) Policy Letter 11-01 by preserving inherently governmental and critical Operational Test & Evaluation (OT&E) capability. This enhancement also captures a significant portion of direct OT&E costs which were previously reflected in program exhibits. As a result, program offices will avoid a significant portion of these direct OT&E costs through the FYDP. ***FY 2015 Plans:*** N/A	- -	3.165 -	- -
Accomplishments/Planned Programs Subtotals	7.846	11.720	11.866

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy											Date: March 2014	
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605873M / *Marine Corps Program Wide Supt*				Project (Number/Name) 2330 / *Chem Bio Consequence Mgmt*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
2330: *Chem Bio Consequence Mgmt*	-	1.003	2.660	1.249	-	1.249	1.386	1.544	1.580	1.617	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Family of Incident Response Systems (FIRS) consists of equipment, systems, and services designed to provide Weapons of Mass Destruction (WMD) incident response forces the capabilities needed to effectively respond to a terrorist attack using Chemical, Biological, Radiological, Nuclear, and High-Yield Explosives (CBRNE). FIRS meets the mission requirements for the detection; mass casualty decontamination; force protection; responder inter-agency interoperability; Command, Control, Communications, Computers & Intelligence (C4I); urban search and rescue; medical and general support requirements needed by these forces to mitigate the effects of a CBRNE terrorist attack. FIRS relies primarily on Commercial Off-The-Shelf/Non-Developmental Items (COTS/NDI) equipment and systems that meet the particular mission requirements of Consequence Management (CM). Nuclear, Biological, and Chemical (NBC) systems are adopted if they meet the CM mission requirements. FIRS Research & Development effort allows the program to keep abreast of emerging technologies in the commercial sector and address operational capability gaps that cannot be met by commercial items.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: FIRS: Reconnaissance Mission Area.	0.450	1.121	0.382
Articles:	-	-	-
FY 2013 Accomplishments: Efforts included: 1) began verification testing for the person portable Gas Chromatograph Mass Spectometer; 2) began verification comparison testing of Rae Systems Arearae and Mine Safety Appliance Safesite.			
FY 2014 Plans: Efforts include plans to test next generation area detection, to include: 1) complete verification testing of the person portable Gas Chromatograph Mass Spectometer; 2) complete verification comparison testing of Rae Systems Arearae and Mine Safety Appliance Safesite; 3) initiate limited verification testing for the Mobile Lab Upgrade; 4) begin Cascade System refresh.			
FY 2015 Plans: Includes plans to 1) complete limited verification testing for the Mobile Lab Upgrade; 2) complete Cascade System refresh.			
Title: C4I Mission Area	-	0.059	-
Articles:	-	-	-
FY 2013 Accomplishments:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605873M / *Marine Corps Program Wide Supt*	**Project (Number/Name)** 2330 / *Chem Bio Consequence Mgmt*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
N/A ***FY 2014 Plans:*** Effort is to conduct Landing Craft Air Cushion (LCAC) testing for the Unified Command Suite Variant 2 Upgrade. ***FY 2015 Plans:*** N/A			
Title: FIRS: Force Protection Mission Area	0.553	1.480	0.867
Articles:	-	-	-
FY 2013 Accomplishments: Efforts included: 1) completed the prototype development of the new positive/negative pressure adaptable mask (XM55); 2) began prototype development testing of new chemical, biological glove; 3) initiated canister gas life testing on newly released Chem-Bio filter. ***FY 2014 Plans:*** Efforts include: 1) begin verification testing of the new positive/negative pressure adaptable mask (XM55); 2) begin the verification and interface testing of commercially available Self-Contained Breathing Apparatus (SCBA); 3) begin interface testing of new NFPA Class 1 ensemble; 4) complete prototype development testing of new chemical, biological glove; 5) continue canister gas life testing on newly released Chem-Bio Filter. ***FY 2015 Plans:*** Efforts will include: 1) complete verification testing of the new positive/negative pressure adaptable mask (XM55); 2) complete interface testing of commercially available Self-Contained Breathing Apparatus (SCBA); 3) complete interface testing of new NFPA Class 1 ensemble; 4) initiate verification and interface testing of new chemical, biological glove; 5) complete canister gas life testing on newly released Chem-Bio Filter.			
Accomplishments/Planned Programs Subtotals	1.003	2.660	1.249

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605873M / *Marine Corps Program Wide Supt*	**Project (Number/Name)** 2330 / *Chem Bio Consequence Mgmt*

E. Performance Metrics

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605873M / *Marine Corps Program Wide Supt*	Project (Number/Name) 2930 / *Phase 0 Activities*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2930: *Phase 0 Activities*	-	3.371	3.625	-	-	-	-	-	-	-	-	6.996
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

Note

Project 2930 Phase 0 Activities (Phase A) has been terminated. FY2014 is the last year of funding provided for this program.

A. Mission Description and Budget Item Justification

Phase A (previously known as Phase 0) Activities consist of a series of interrelated activities of the acquisition process designed to investigate potential material solutions to validate needs, estimate program costs, support sound business decisions, correct inherent disconnects between the Programming, Planning, Budgeting and Execution (PPBE) cycle, the Combat Development and Acquisition Management Systems, and prevent undue delays in pursuing priority requirements. The process supports Commanding General (CG), MCCDC and Commander, Marine Corps Systems Command (COMMARCORSYSCOM) by providing funding to priority programs, thus allowing for the examination of concepts and alternatives to support an orderly transition from requirements to initiatives and initiatives to funded programs. This will permit the POM process to focus on activities of evaluating, prioritizing and integrating rather than defining and resolving raw, immature requirements.

Phase A activities "jump start" high priority programs of the acquisition process. Furthermore, since 70% of a program's life cycle cost is determined during Phase A, this initiative puts resources to work where the return on investment is the greatest. Typical studies conducted on Phase A activities include, but are not limited to Market Surveys, Business Case Analysis (BCA), Cost as an Independent Variable (CAIV) analysis, Life Cycle Cost Estimates, Cost Comparison Analysis, Acquisition Strategies, and Trade-off Analysis in lieu of an Analysis of Alternatives.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: *Phase A Activities	3.371	3.625	-
Articles:	-	-	-
FY 2013 Accomplishments: Modular Weapon System (MWS) M16A4 Product Improvement Program Life Cycle Cost Estimate (LCCE). HMMWV Vehicle Sustainment Modification Program. BCA that enables programmatic and milestone decisions by providing options for the implementation of HMMWV sustainment modification packages. Improving IT Cost Modeling. Researched, developed and tested a prototype MCSC IT cost model, fed by a standard CARD template, which could produce cost estimates for a majority of IT systems that MCSC manages.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0605873M / *Marine Corps Program Wide Supt*	**Project (Number/Name)** 2930 / *Phase 0 Activities*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Combat Operations Center (COC). RDT&E start for SIM/STIM of the entire COC for future testing and demonstrations. BCA for the procurement strategy of the block IV development of the Expeditionary Airport Surveillance Radar (EASR) capability for G/ATOR. Portfolio Management. Established a fully developed Fleet Management Plan. Bill of Materials (BOM) Approach Initiative. Support the Joint Center for Ground Vehicles goal of establishing common processes and procedures and develop a BOM approach for cost estimating. Combat Camera Systems (CCS). Life Cycle Cost Estimate on the Below Minimum Detectable Limits (BMDL) technology as part of an ongoing investigation into the capability. ***FY 2014 Plans:*** Phase A Activities - Initiate, assist and complete Phase A activities of high priority programs during their concept refinement and in some cases their technology development phase in the areas of Business Case Analysis, Trade Studies, Economic Analysis, Life Cycle Cost Estimates and Market Research Studies in support of, but not limited to, the following efforts: Remote Video Viewing; Ground Force Robotics; Electronics Maintenance Support; Alternative Armor for Joint Weight Tactical Vehicle and Medium Fleet Transport; and Joint Battle Command and Control. ***FY 2015 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	3.371	3.625	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy	Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0305885N *I Tactical Cryptologic Activities*

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	2.562	0.497	-	-	-	-	-	-	-	-	3.059
0037: *TACT COMBAT OPER SYS*	0.000	2.562	0.497	-	-	-	-	-	-	-	-	3.059

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

ELINT collection and monitoring systems support: This is a continuing program that will provide advanced technologies and capabilities to current Electronic Warfare (EW)/Electronic Intelligence (ELINT) System Programs of Record (POR). The program develops concepts of data/information exchange within the Global Information Grid (GIG). To comply with the intent of the GIG, this program addresses compression, transmission, decompression, re-compression and long-term storage of targeted data/information without degradation. This program will become an enabler for future capabilities such as remote operation of surface, subsurface, and air EW/ELINT open architecture PORs.

COMTENTHFLT Maritime Operations Center (MOC): The Maritime Operations Center (MOC) visualization system provides the common operational picture (COP) in support of the Commander's mission requirements.

B. Program Change Summary ($ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	2.795	0.497	0.302	-	0.302
Current President's Budget	2.562	0.497	-	-	-
Total Adjustments	-0.233	-	-0.302	-	-0.302
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	-	-	-0.302	-	-0.302
• Congressional General Reductions Adjustments	-0.233	-	-	-	-

Change Summary Explanation

Technical: Not applicable.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy	Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0305885N *I Tactical Cryptologic Activities*

Schedule: Not applicable.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0305885N / *Tactical Cryptologic Activities*	Project (Number/Name) 0037 / *TACT COMBAT OPER SYS*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0037: *TACT COMBAT OPER SYS*	-	2.562	0.497	-	-	-	-	-	-	-	-	3.059
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

ELINT collection and monitoring systems support: Provides advanced technologies and capabilities to current Electronic Warfare (EW)/Electronic Intelligence (ELINT) System Programs of Record (POR) and develops concepts of data/information exchange within the Global Information Grid (GIG). To comply with the intent of the GIG, this program addresses compression, transmission, decompression, re-compression and long-term storage of targeted data/information without degradation. This program will become an enabler for future capabilities such as remote operation of surface, subsurface, and air EW/ELINT open architecture PORs.

COMTENTHFLT Maritime Operations Center (MOC): The Maritime Operations Center (MOC) visualization system provides the common operational picture (COP) in support of the Commander's mission requirements.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Elint Collection and Monitoring Systems	1.562	-	-
Articles:	-	-	-
Description: Development of antenna technology, communication, capabilities, operational concepts and software.			
FY 2013 Accomplishments: Continuation of Spectral Warrior development and system support during major training events. Continue development of Surface Electronic Capability Augmentation package and Terminator Lite 2 advanced portable collection systems.			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Title: COMTENTHFLT Maritime Operations Center (MOC)	1.000	0.497	-
Articles:	-	-	-
Description: Development of MOC Visualization System.			
FY 2013 Accomplishments:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0305885N / *Tactical Cryptologic Activities*	**Project (Number/Name)** 0037 / *TACT COMBAT OPER SYS*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Continuation of the Maritime Operations Center (MOC) visualization system. This system will provide the Common Operational Picture (COP) in support of the Commander's mission requirements. The system design permits the connection of numerous data feeds at various security classification levels in order to project and adjust the COP as required on multiple output displays electronically. ***FY 2014 Plans:*** Continuation of the Maritime Operations Center (MOC) visualization system. This system will provide the Common Operational Picture (COP) in support of the Commander's mission requirements. The system design permits the connection of numerous data feeds at various security classification levels in order to project and adjust the COP as required on multiple output displays electronically. ***FY 2015 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	2.562	0.497	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not required.

E. Performance Metrics

ELINT: Provide advanced technologies and capabilities to current Electronic Warfare/Electronic Intelligence System Programs of Record (POR).

MOC: Provide common operational picture (COP) in support of the Commander's mission requirements.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy	Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0909999N *I Cancelled Account Adjustments*

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	2.668	-	-	-	-	-	-	-	-	-	2.668
0000: *UNDIST*	0.000	2.668	-	-	-	-	-	-	-	-	-	2.668

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Funding is to reimburse the Department of Treasury for cancelled account liabilities.

B. Program Change Summary ($ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	-	-	-	-	-
Current President's Budget	2.668	-	-	-	-
Total Adjustments	2.668	-	-	-	-
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	2.668	-			
• SBIR/STTR Transfer	-	-			

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0909999N / *Cancelled Account Adjustments*	Project (Number/Name) 0000 / *UNDIST*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0000: *UNDIST*	-	2.668	-	-	-	-	-	-	-	-	-	2.668
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Funding is to reimburse the Department of Treasury for a cancelled account liability.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Cancelled Account Adjustments	2.668	-	-
Articles:	-	-	-
FY 2013 Accomplishments: Funding is to reimburse the Department of Treasury for a cancelled account liability.			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	2.668	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Not applicable.