

DEPARTMENT OF THE NAVY
FISCAL YEAR (FY) 2008/2009
BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES
FEBRUARY 2007

WEAPONS PROCUREMENT, NAVY

Department of Defense Appropriations Act, 2007

Weapons Procurement, Navy

For construction, procurement, production, modification, and modernization of missiles, torpedoes, other weapons, and related support equipment including spare parts, and accessories therefor; expansion of public and private plants, including the land necessary therefor, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway, \$2,573,820,000, to remain available for obligation until September 30, 2009.

"In accordance with the President's Management Agenda, Budget and Performance Integration initiative, this program has been assessed using the Program Assessment Rating Tool (PART). Remarks regarding program performance and plans for performance improvement can be located at the Expectmore.gov website."

UNCLASSIFIED
DEPARTMENT OF THE NAVY
FY 2008 PROCUREMENT PROGRAM

SUMMARY
(\$ IN MILLIONS)

19 JAN 2007

APPROPRIATION: WEAPONS PROCUREMENT, NAVY

ACTIVITY -----	FY 2006 -----	FY 2007 -----	FY 2008 -----
01. BALLISTIC MISSILES	908.5	919.4	1,091.3
02. OTHER MISSILES	1,299.3	1,305.5	1,403.1
03. TORPEDOES AND RELATED EQUIPMENT	208.3	226.7	209.9
04. OTHER WEAPONS	315.5	226.3	345.8
06. SPARES AND REPAIR PARTS	68.0	55.7	34.3
TOTAL WEAPONS PROCUREMENT, NAVY	2,799.6	2,733.6	3,084.4

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DEPARTMENT OF THE NAVY
FY 2008 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1507N WEAPONS PROCUREMENT, NAVY

DATE: 19 JAN 2007

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2006		FY 2007		FY 2008		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
BUDGET ACTIVITY 01: BALLISTIC MISSILES									

MODIFICATION OF MISSILES									
1	TRIDENT II MODS			905.2		915.9	12	1,087.8	U
SUPPORT EQUIPMENT AND FACILITIES									
2	MISSILE INDUSTRIAL FACILITIES	A		3.4		3.4		3.5	U
			-----		-----		-----		
TOTAL BALLISTIC MISSILES				908.5		919.4		1,091.3	
BUDGET ACTIVITY 02: OTHER MISSILES									

STRATEGIC MISSILES									
3	TOMAHAWK	A	408	373.0	355	353.1	394	383.1	U
TACTICAL MISSILES									
4	AMRAAM	A	48	73.8	128	88.3	79	87.5	U
5	SIDEWINDER	A	159	37.1	174	40.2	184	54.9	U
6	JSOW	B	420	144.2	390	124.1	421	131.3	U
7	SLAM-ER	A				60.7			U
8	STANDARD MISSILE	A	75	143.7	75	139.1	75	159.7	U
9	RAM	A	90	85.8	90	56.6	90	79.5	U
10	HELLFIRE	A	1022	93.2		100.0	439	45.7	U
11	AERIAL TARGETS	A		91.6		83.0		66.3	U
12	DRONES AND DECOYS	A		16.8					U
13	OTHER MISSILE SUPPORT	A		10.2		9.0		9.3	U
MODIFICATION OF MISSILES									
14	ESSM	A	116	98.5	108	99.2	85	83.3	U

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PAGE N-10

UNCLASSIFIED

DEPARTMENT OF THE NAVY
FY 2008 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1507N WEAPONS PROCUREMENT, NAVY

DATE: 19 JAN 2007

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2006		FY 2007		FY 2008		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
15	HARM MODS	A					41.3		U
16	STANDARD MISSILES MODS	A		56.5		58.4			U
	SUPPORT EQUIPMENT AND FACILITIES								
17	WEAPONS INDUSTRIAL FACILITIES	A		30.1		64.4		3.7	U
18	FLEET SATELLITE COMM FOLLOW-ON	A						215.8	U
	ORDNANCE SUPPORT EQUIPMENT								
19	ORDNANCE SUPPORT EQUIPMENT	A		44.8		29.4		41.7	U
	TOTAL OTHER MISSILES								
				1,299.3		1,305.5		1,403.1	
	BUDGET ACTIVITY 03: TORPEDOES AND RELATED EQUIPMENT								

	TORPEDOES AND RELATED EQUIP.								
20	SSTD	A		3.9		5.8		* 35.9	U
21	ASW TARGETS	A		24.2		24.9		10.2	U
	MOD OF TORPEDOES AND RELATED EQUIP								
22	MK-46 TORPEDO MODS	A		68.7		85.6	133	83.9	U
23	MK-48 TORPEDO ADCAP MODS	A		63.6		64.6		63.8	U
24	QUICKSTRIKE MINE	B		3.0		3.1		3.2	U
	SUPPORT EQUIPMENT								
25	TORPEDO SUPPORT EQUIPMENT	A		28.8		26.2		35.9	U
26	ASW RANGE SUPPORT	A		12.9		13.2		9.5	U
	DESTINATION TRANSPORTATION								
27	FIRST DESTINATION TRANSPORTATION	A		3.1		3.2		3.4	U
	TOTAL TORPEDOES AND RELATED EQUIPMENT								
				208.3		226.7		209.9	

UNCLASSIFIED

PAGE N-11

UNCLASSIFIED

DEPARTMENT OF THE NAVY
FY 2008 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1507N WEAPONS PROCUREMENT, NAVY

DATE: 19 JAN 2007

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2006		FY 2007		FY 2008		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
BUDGET ACTIVITY 04: OTHER WEAPONS									

GUNS AND GUN MOUNTS									
28	SMALL ARMS AND WEAPONS	A		22.9		12.5		14.2	U
MODIFICATION OF GUNS AND GUN MOUNTS									
29	CIWS MODS	A		193.0		150.6		182.3	U
30	COAST GUARD WEAPONS	A		5.3		5.4		20.5	U
31	GUN MOUNT MODS	A		82.3		20.0		8.4	U
32	PIONEER	A		4.9		16.4			U
33	CRUISER MODERNIZATION WEAPONS	A		5.4		18.4		23.6	U
34	AIRBORNE MINE NEUTRALIZATION SYSTEMS	A		1.5		3.1		6.6	U
OTHER									
35	MARINE CORPS TACTIAL UNMANNED AERIAL SYSTEM							90.3	U
36	CANCELLED ACCOUNT ADJUSTMENTS	A		.2					U
TOTAL OTHER WEAPONS				315.5		226.3		345.8	
BUDGET ACTIVITY 06: SPARES AND REPAIR PARTS									

SPARES AND REPAIR PARTS									
37	SPARES AND REPAIR PARTS	A		68.0		55.7		34.3	U
TOTAL SPARES AND REPAIR PARTS				68.0		55.7		34.3	
TOTAL WEAPONS PROCUREMENT, NAVY				2,799.6		2,733.6		3,084.4	

UNCLASSIFIED

PAGE N-12

BUDGET ITEM JUSTIFICATION SHEET										DATE	
										February 2007	
APPROPRIATION/BUDGET ACTIVITY					P-1 ITEM NOMENCLATURE						
WEAPONS PROCUREMENT, NAVY / BA 1 - BALLISTIC MISSILES					1250 - TRIDENT II MODIFICATIONS						
\$ in Millions	Prior Years	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	To Complete	Total Program *
QUANTITY	0			12	24	24	24	24	0	0	108
End Cost	\$1,561.3	\$905.2	\$915.9	\$1,087.8	\$1,189.9	\$1,207.8	\$1,124.9	\$1,145.9	\$1,162.4	\$4,872.0	\$15,173.1
Less: Prior Year Adv. Proc.	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Full Funding TRIDENT II	\$1,561.3	\$905.2	\$915.9	\$1,087.8	\$1,189.9	\$1,207.8	\$1,124.9	\$1,145.9	\$1,162.4	\$4,872.0	\$15,173.1
Plus: Current Year Adv. Proc.	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Plus: Initial Spares	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total New Obligational Authority	\$1,561.3	\$905.2	\$915.9	\$1,087.8	\$1,189.9	\$1,207.8	\$1,124.9	\$1,145.9	\$1,162.4	\$4,872.0	\$15,173.1
Missile Flyaway Unit Cost	\$0.0	\$0.0	\$0.0	\$31.6	\$26.3	\$25.9	\$25.3	\$25.7	\$0.0		\$26.4

The TRIDENT II missile is carried on OHIO CLASS Fleet Ballistic Missile Submarines, ensuring that the United States continues to maintain a highly survivable strategic deterrent well into the 21st century. Deployment of the TRIDENT II missile (1) enhances Fleet Ballistic Missile Submarine survivability by increasing Sea Launched Ballistic Missile range at full payload to exploit the total patrol area available to the TRIDENT submarine, (2) minimizes total weapon system costs by increasing Sea Launched Ballistic Missile payload to the level permitted by the size of the TRIDENT submarine launch tube, thereby allowing mission capability to be achieved with fewer submarines, (3) adds efficient hard target kill capability to the Sea Launched Ballistic Missile, and (4) the CTM adapts the TRIDENT II (D5) missile system to provide offensive precision strike capability delivering conventional (non-nuclear) effects at global ranges.

Funding in the TRIDENT II Mods line is required to continue the procurement of TRIDENT II missiles, initial production of which commenced in FY 1987 (funded in the TRIDENT II D-5 line item) and supported a TRIDENT II missile Initial Operational Capability (IOC) in March 1990. In FY 2003 Congress transferred the funding for D-5 life extension and associated support costs to this P-1 line item.

The FY 2008 request of \$1,087.8 million includes \$215.0 million for program and production support costs (including flight test instrumentation and additional reentry system hardware), \$836.8 million for the D-5 life extension program, and \$36.0 million for the Conventional TRIDENT Modification (CTM). The FY 2009 request of \$1,189.9 million includes \$191.4 million for program and production support costs (including flight test instrumentation and additional reentry system hardware), \$911.6 million for the D-5 life extension program, and \$87.0 million for the Conventional TRIDENT Modification (CTM). The D-5 life extension funding request procures D-5 missile motors and other critical components required to support the extended 45-year SSBN hull life (for a 14 SSBN TRIDENT II program, which assumes the backfit of four C-4 boats to the D-5 configuration) and sustains the redesign of the guidance system and missile electronics, which must be replaced to support the extended service life.

These estimates support an FY 2013 D-5 life extension IOC to maintain the Nuclear Posture Review (NPR)-directed deployed force structure of 12 TRIDENT II SSBNs each fully loaded with 24 D-5 missiles.

***The P-40 Total Program Costs has been revised to include \$2.4B that heretofore has only been reported on the D5 Selected Acquisition Report (SAR) under Section 18 as Operating and Support Costs. In addition, this submission reflects a D5 program increase of \$.6B related to the continuous production of energetic components through FY2013 and a \$.3B increase due to more mature pricing of guidance electronic components associated with radiation hardened semi-conductor production.**

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B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE				SUBHEAD	
Weapons Procurement, Navy Budget Activity 1					1250-TRIDENT II MODifications				31DM	
Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
FY08 TRIDENT II Mods	12	31,586	SSP- Crystal City, VA		SS/CPIF	Lockheed Martin Missiles and Space Co. (LMMS) Sunnyvale, CA	Oct-07	Feb-11	yes	
FY09 TRIDENT II Mods	24	26,274	SSP- Crystal City, VA		SS/CPIF	Lockheed Martin Missiles and Space Co. (LMMS) Sunnyvale, CA	Oct-08	Jul-12	yes	
D. REMARKS										

DD Form 2446-1, JUL 87

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 1 PAGE NO. 3

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET	Date: February 2007
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APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY / BA 1 - BALLISTIC MISSILES	P-1 ITEM NOMENCLATURE 1350 - MISSILE INDUSTRIAL FACILITIES
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	Prior Years	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	To Complete	Total Program
QUANTITY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cost (in millions)	N/A	\$3.4	\$3.4	\$3.5	\$3.5	\$3.6	\$3.6	\$3.7	\$3.7	N/A	N/A
Initial Spares	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total (in Millions)	N/A	3.4	\$3.4	\$3.5	\$3.5	\$3.6	\$3.6	\$3.7	\$3.7	N/A	N/A
Unit Cost (in Millions)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Funding for Missile Industrial Facilities provides for capital maintenance projects at Navy-owned Naval Industrial Reserve Ordnance Plants (NIROPS) at Sunnyvale and Santa Cruz, California, and Bacchus, Utah, in support of the Fleet Ballistic Missile program.

Projects planned in FY 2008 & FY 2009 include additions and modifications to, and rehabilitation of, civil works, non-severable equipment, and real property. Among those projects are upgrades and improvements such as upgrading building electrical systems, replacing conductive floors, replacing insulation, replacing water and steam piping, paving roads and parking areas and painting buildings.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)			A. WEAPONS PROCUREMENT, NAVY BUDGET ACTIVITY 1			B. MISSILE INDUSTRIAL FACILITIES (31DG)			C. LOCKHEED MARTIN MISSILES AND SPACE CO. SUNNYVALE, CA			D. FEB 2007	
WEAPON SYSTEM COST ELEMENTS	Ident. Code	FY06 Unit cost	Qty	TOTAL COST	FY07 Unit cost	Qty	TOTAL COST	FY08 Unit cost	Qty	TOTAL COST	FY09 Unit cost	Qty	TOTAL COST
CAPITAL MAINTENANCE				3,367			3,439			3,486			3,526
TOTAL MISSILE INDUSTRIAL FACILITIES				3,367			3,439			3,486			3,526

BUDGET ITEM JUSTIFICATION SHEET

DATE: February 2007

P-40

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

Weapons Procurement, Navy

BA 2 - Other Missiles

210100, TOMAHAWK (MYP)

Program Element for Code B Items:

Other Related Program Elements

	Prior Years	ID Code	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	2012	2013	To Complete	Total Program
Quantity	5,223	A	408	355	394	265	257	281	278	266	0	7,727
Gross P-1 Cost (\$M)	9,038.452		385.921	366.214	397.691	324.062	322.183	349.617	353.022	359.935	0.000	11,897.097
EOQ Credit	-9.404		-12.907	-13.073	-14.616							-50.000
Net P-1 Cost (\$M)	9,029.048		373.014	353.141	383.075	324.062	322.183	349.617	353.022	359.935	0.000	11,847.097
AP/EOQ	50.000											50.000
Cost (\$M)	9,079.048		373.014	353.141	383.075	324.062	322.183	349.617	353.022	359.935	0.000	11,897.097
Initial Spares (\$M)	313.518		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	313.518
Total (\$M)	9,392.566		373.014	353.141	383.075	324.062	322.183	349.617	353.022	359.935	0.000	12,210.615
Unit Cost(\$M)	1.798		0.914	0.995	0.972	1.223	1.254	1.244	1.270	1.353	0.000	1.580

MISSION AND DESCRIPTION:

Tomahawk provides an attack capability against targets on land (Tomahawk Land Attack Missile (TLAM)), and can be launched from both surface ships (RGM) and submarines (UGM).

Tomahawk consists of the following variants: (1) UGM -109A, Land Attack Nuclear; (2) RGM/UGM-109C, Land Attack Conventional; (3) RGM/UGM-109D, Land Attack Submunition Dispenser; (4) RGM/UGM-109E, Tactical Tomahawk. The Land Attack Surface Launch Nuclear version is no longer in Fleet use. The land-attack version in the Fleet is used for precision destruction of targets at long range.

Production of the Tactical Tomahawk missile began with Low Rate Initial Production (LRIP) buys of 25 (LRIP I) in FY2002 and 377 (167(LRIP II) and 210 (LRIP III)) in FY2003. LRIP I completed delivery in December 2004. LRIP II completed delivery in August 2005. Full rate production contract was awarded FY2004. FY2004-FY2008 unit cost based on multi-year procurement (MYP) contract. The FY04 Authorization and Appropriations Act authorized the Navy to pursue a MYP contract. FY2004 EOQ supports economic order quantity procurements for the MYP.

FY08 Funding supports the procurement and sustainment of 394 missiles.

FY09 Funding supports the procurement and sustainment of 265 missiles.

Of the amount shown above in FY2006, \$75.9M for 94 missiles was provided in Title IX.

Characteristics and dimensions (approximate)

Contractor: Raytheon Missiles Systems Company

Weight (with booster and capsule) (UGM-109): 4,300 pounds

Weight (with booster and canister) (RGM-109): 4,000 pounds

Length (with booster): 20.5 feet

Wing Span: 8.6 feet

Cruise Speed: High Subsonic

EXHIBIT P-5

(Dollars in Thousands)

BLI - Nomenclature Popular Name: 210100, TOMAHAWK

Cost Elements	Prior Years	FY 2006			FY 2007			FY 2008			FY 2009		
	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
<u>HARDWARE - MISSILE</u>													
PREVIOUS TOMAHAWK PRODUCTION	5,611,035												
REMANUFACTURE (BLOCK III)	592,217												
TACTICAL TOMAHAWK (VLS)	590,718	336	730	245,409	242	750	181,592	284	750	213,108	188	922	173,289
TACTICAL TOMAHAWK (CLS)	280,073	72	718	51,703	113	718	81,144	68	728	49,510	42	889	37,332
TACTICAL TOMAHAWK (TTL)								42	996	41,838	35	1,163	40,689
TOTAL HARDWARE - MISSILE	7,074,043	408	728	297,112	355	740	262,736	394	773	304,456	265	948	251,310
<u>HARDWARE - MISSILE - OTHER COSTS</u>													
CCLS CAPSULE RETRO KIT				11,700			13,400			1,200			
CCLS SUBMARINE CAPSULES	77,928	72	391	28,170	113	400	45,166	68	408	27,760	42	417	17,508
MK 14 CANISTERS	37,325	336	52	17,394	242	74	17,864	284	111	31,610	188	121	22,748
TOTAL HARDWARE - MISSILE - OTHER COSTS	115,253	408	112	57,264	355	178	76,430	352	169	60,570	230	175	40,256
<u>PROCUREMENT SUPPORT - MISSILE</u>													
PRODUCT IMPROVEMENT	378,947												
PRODUCTION ENGINEERING SUPPORT	626,347			8,656			8,124			9,826			9,778
SPECIAL TOOLING & TEST EQUIPMENT (ST & TE)	38,090												
SYSTEMS ENGINEERING	309,077			12,993			11,322			13,619			13,543
TOTAL PROCUREMENT SUPPORT - MISSILE	1,352,461			21,649			19,446			23,445			23,321
Total Flyaway Cost	8,541,757			376,025			358,612			388,471			314,887
<u>FLEET SUPPORT-MISSILE</u>													
DOCUMENTATION	31,223			1,034			814			988			984
SUPPORT EQUIPMENT	125,275			6,062			4,583			5,559			5,533
THEATER MISSION PLANNING CENTER	255,044												
TRAINING EQUIPMENT	85,153			2,800			2,205			2,673			2,658
TOTAL FLEET SUPPORT-MISSILE	496,695			9,896			7,602			9,220			9,175
<u>OTHER MISSILE COSTS</u>													
EOQ	50,000												
EOQ Credit	-9,404												
TOTAL OTHER MISSILE COSTS	40,596			-12,907			-13,073			-14,616			
<u>SPARES & REPAIR PARTS</u>													
TOMAHAWK INITIAL SPARES	313,518												
TOTAL SPARES & REPAIR PARTS	313,518												
Weapon System Cost	9,392,566	408	914	373,014	355	995	353,141	394	972	383,075	265	1,223	324,062
<u>NON ADD:</u> FY02 DERF TOMAHAWK REMANUFACTURE	341,222												
Total Program Cost	9,392,566			373,014			353,141			383,075			324,062

CLASSIFICATION:

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)							Weapon System TOMAHAWK		A. DATE February 2007	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					SUBHEAD
Weapons Procurement, Navy			BA 2 - Other Missiles		210100, TOMAHAWK (MYP)					J2EL
Cost Element/Fiscal Year	Qty	Unit Cost (\$K)	Location of PCO	RFP Issue Date	Contract Method & Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now	Date Revisions Available
FY 2003	210	830	NAVAIR	11/2003	SS/FPI	RAYTHEON COMPANY, TUCSON, AZ	01/2004	09/2005	YES	N/A
FY 2004*	322	733	NAVAIR	12/2003	SS/FP MYP	RAYTHEON COMPANY, TUCSON, AZ	08/2004	02/2006	YES	N/A
FY 2005*	298	726	NAVAIR	12/2003	SS/FP MYP	RAYTHEON COMPANY, TUCSON, AZ	08/2004	11/2006	YES	N/A
FY 2006*	408	728	NAVAIR	12/2003	SS/FP MYP	RAYTHEON COMPANY, TUCSON, AZ	08/2004	08/2007	YES	N/A
FY 2007*	355	740	NAVAIR	12/2003	SS/FP MYP	RAYTHEON COMPANY, TUCSON, AZ	08/2004	08/2008	YES	N/A
FY 2008*	394	773	NAVAIR	12/2003	SS/FP MYP	RAYTHEON COMPANY, TUCSON, AZ	08/2004	08/2009	YES	N/A
FY 2009	265	948	NAVAIR	07/2007	SS/FFP	RAYTHEON COMPANY, TUCSON, AZ	02/2009	08/2010	YES	N/A

* Based upon Tactical Tomahawk Multi-Year Procurement (MYP) in FY2004-FY2008.

Remarks:

BUDGET ITEM JUSTIFICATION SHEET											DATE: February 2007	
P-40												
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM NOMENCLATURE					
Weapons Procurement, Navy BA 2 - Other Missiles							220600 AMRAAM					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Program
Quantity*	1,747		48	128	79	97	99	90	91	94	1,988	4,461
Cost (\$M)	1,246.0		73.8	88.3	87.5	96.9	97.5	94.4	92.2	92.4	2,153.8	4,122.8
Initial Spares (\$M)	26.2		0.0	0.5	0.5	0.5	0.5	0.4	0.4	0.4	5.5	34.9
Total (\$M)	1,272.2		73.8	88.8	88.0	97.4	98.0	94.8	92.6	92.8	2,159.3	4,157.7
Unit Cost(\$M)	0.7		1.5	0.7	1.1	1.0	1.0	1.1	1.0	1.0	1.1	0.9

MISSION AND DESCRIPTION

The Advanced Medium Range Air-to-Air Missile (AMRAAM) is the next generation all-weather, all-environment radar guided missile developed by the Air Force and Navy. AMRAAM is smaller, faster, lighter, and has improved capabilities against very low-altitude and high-altitude targets in an electronic countermeasure environment. AMRAAM incorporates an active radar in conjunction with an inertial reference unit and microcomputer system which makes the missile less dependent upon the aircraft fire control system. This advanced capability enables the pilot to aim and fire several missiles at multiple targets. AMRAAM upgrades have been accomplished through incremental Pre-Planned Product Improvement (P3I) programs to counter advanced electronic attack and cruise missile threats.

FY2008/2009 PROGRAM JUSTIFICATION:

79 missiles and 97 missiles will be procured in FY2008 and FY2009 respectively along with non-recurring support costs such as: government field activity technical, test, and logistics support; procurement of test articles; test equipment/test equipment upgrades to support the AIM-120D configuration; and procurement of peculiar support equipment.

CNO(N78) ltr 4920 Ser N780C9/4U788638 of 6/8/04 revised the Procurement Objective from 2,419 missiles to 4,461 missiles.

* While not reflected in the budget justification at this time, a reduction in FY 2007 quantity is expected following contract negotiations in February 2007 due to lower than earlier anticipated Foreign Military Sales.

WEAPONS PROCUREMENT NAVY
MISSILE COST ANALYSIS
EXHIBIT P-5
(Dollars in Millions)

BLI - Nomenclature Popular Name: 220600 AMRAAM Cost Elements	1,747													
	Prior Years Total Cost	FY 2006 Quantity	Quantity Unit Cost	48 Total Cost	FY 2007 Quantity	Quantity Unit Cost	128 Total Cost	FY 2008 Quantity	Quantity Unit Cost	79 Total Cost	FY 2009 Quantity	Quantity Unit Cost	97 Total Cost	
HARDWARE - MISSILE														
ALL UP ROUND (AUR)	793.921	48	0.827	39.685	128	0.460	58.880	79	0.815	64.348	97	0.699	67.793	
ENGINEERING CHANGE ORDERS (ECO)	22.527			0.755			1.528			1.313			1.556	
TOTAL HARDWARE - MISSILE	816.448	48	0.843	40.440	128	0.472	60.408	79	0.831	65.661	97	0.715	69.349	
PROCUREMENT SUPPORT - MISSILE														
CONTAINERS	2.230			1.500										
SPECIAL TOOLING & TEST EQUIPMENT	50.965			14.910			10.464			4.852			0.500	
TECHNICAL SUPPORT	182.139			9.064			9.684			7.796			17.816	
TEST SUPPORT	74.122			4.661			4.882			5.109			5.126	
TOTAL PROCUREMENT SUPPORT - MISSILE	309.456			30.135			25.030			17.757			23.442	
Total Flyaway Cost	1,125.904	48	1.470	70.575	128	0.667	85.438	79	1.056	83.418	97	0.957	92.791	
FLEET SUPPORT-MISSILE														
INTEGRATED LOGISTICS SUPPORT (ILS)	56.010			2.994			2.518			3.691			3.747	
TEST EQUIPMENT	59.075			0.150			0.259			0.270			0.272	
TRAINING EQUIPMENT	4.973			0.078			0.080			0.081			0.083	
TOTAL FLEET SUPPORT-MISSILE	120.058			3.222			2.857			4.042			4.102	
Weapon System Cost	1,245.962	48	1.537	73.797	128	0.690	88.295	79	1.107	87.460	97	0.999	96.893	
Modifications														
Initial Spares	26.189						0.547			0.468			0.505	
Total Program Cost	1,272.151			73.797			88.842			87.928			97.398	

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)							Weapon System AMRAAM	A. DATE February 2007				
B. APPROPRIATION/BUDGET ACTIVITY						C. P-1 ITEM NOMENCLATURE					SUBHEAD	
Weapons Procurement, Navy						BA 2 - Other Missiles					220600 AMRAAM	J2GB
Cost Element/Fiscal Year	Qty	Unit Cost (M)	Location of PCO	RFP Issue Date	Contract Method & Type	Contractor and Location	Award Date	Date of First Navy Delivery	Specs Available Now	Date Revisions Available		
FY 2003	76	0.447	EGLIN AFB, FL	10/2002	SS-FP	RAYTHEON MISSILE SYSTEMS COMPANY, TUCSON, AZ	03/2003	08/2006	YES			
FY 2004	42	0.431	EGLIN AFB, FL	10/2003	SS-FP	RAYTHEON MISSILE SYSTEMS COMPANY, TUCSON, AZ	01/2004	02/2007	YES			
FY 2005	37	0.434	EGLIN AFB, FL	10/2004	SS-FP	RAYTHEON MISSILE SYSTEMS COMPANY, TUCSON, AZ	12/2004	07/2007	YES			
FY 2006	48	0.827	EGLIN AFB, FL	10/2005	SS-FP	RAYTHEON MISSILE SYSTEMS COMPANY, TUCSON, AZ	09/2006	02/2008	YES			
FY 2007	128	0.460	EGLIN AFB, FL	10/2006	SS-FP	RAYTHEON MISSILE SYSTEMS COMPANY, TUCSON, AZ	02/2007	02/2009	YES			
FY 2008	79	0.815	EGLIN AFB, FL	10/2007	SS-FP	RAYTHEON MISSILE SYSTEMS COMPANY, TUCSON, AZ	01/2008	02/2010	YES			
FY 2009	97	0.699	EGLIN AFB, FL	10/2008	SS-FP	RAYTHEON MISSILE SYSTEMS COMPANY, TUCSON, AZ	01/2009	02/2011	YES			

Exhibit P-5A,. Procurement History and Planning
(Exhibit P-5A, Page 3 of 6)

ITEM NO.4
(page 3 of 6)

BUDGET ITEM JUSTIFICATION SHEET											DATE: February 2007	
P-40												
APPROPRIATION/BUDGET ACTIVITY						P-1 ITEM NOMENCLATURE						
Weapons Procurement, Navy BA 2 - Other Missiles						220900, SIDEWINDER						
Program Element for Code B Items: 0204162N						Other Related Program Elements: 0206138M						
	Prior Years	ID Code	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Program
Quantity	627	A	159	174	184	205	202	200	220	221	2745	4937
Cost (\$M)	132.6	A	37.1	40.2	54.9	58.5	59.0	59.3	62.2	62.9	764.7	1,331.3
Initial Spares (\$M)	3.5	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
Total (\$M)	136.1	A	37.1	40.2	54.9	58.5	59.0	59.3	62.2	62.9	764.7	1,334.8
Unit Cost(\$M)	0.2		0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
MISSION AND DESCRIPTION:												
<p>The AIM-9X (Sidewinder) short range air-to-air missile is a long-term evolution of the AIM-9 series of fielded missiles. The AIM-9X missile program provides a launch and leave, air combat munition that uses passive Infrared (IR) energy for acquisition and tracking of enemy aircraft and complements the Advanced Medium Range Air-To-Air Missile. Air superiority in the short-range air-to-air missile arena is essential and includes first shot, first kill opportunity against an enemy employing IR countermeasures. The AIM-9X employs several components common with the AIM-9M (fuse, rocket motor and warhead). Improved Anti-Tamper features are being incorporated to protect improvements inherent in this design.</p>												
<p>FY2008 Program Justification: Lot 8 FRP option will be executed in FY08. The total quantity of missiles procured will be a combination of All Up Rounds (AURs) and Captive Air Training Missiles (CATMs).</p>												
		AIM-9X Quantities	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>		
AIM-9X 220900	Navy		159	174	184	205	202	200	220	221		
AIM-9X M09HA1	Air Force		196	183	161	275	319	219	228	203		
<p>NOTE: Quantities reflected in FY08 to FY13 do not include FMS.</p>												

WEAPONS PROCUREMENT NAVY
MISSILE COST ANALYSIS
EXHIBIT P-5
(Dollars in Millions)

BLI - Nomenclature Popular Name: 220900, SIDEWINDER

Cost Elements	Prior Years	FY 2006	Quantity:	159	FY 2007	Quantity:	174	FY 2008	Quantity:	184	FY 2009	Quantity:	205
	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
HARDWARE - MISSILE													
ALL UP ROUND (AUR)	79.588	115	0.189	21.692	126	0.187	23.561	110	0.254	27.937	109	0.313	34.067
CAPTIVE AIR TRAINING MISSILE	24.117	44	0.167	7.351	48	0.166	7.949	74	0.177	13.111	96	0.168	16.152
ENGINEERING CHANGE ORDERS (ECO)	2.165			0.882			0.983			1.247			1.326
MISSILE CONTAINERS	1.708			0.467			0.519			0.510			0.567
PRODUCTION TECHNICAL SUPPORT	7.949			2.805			3.210			5.670			2.542
SPECIAL TOOLING & TEST EQUIPMENT (ST & T)	0.420			0.110			0.112			0.114			0.117
TOTAL HARDWARE - MISSILE	115.947	159	0.209	33.307	174	0.209	36.334	184	0.264	48.589	205	0.267	54.771
Total Flyaway Cost	115.947	159	0.209	33.307	174	0.209	36.334	184	0.264	48.589	205	0.267	54.771
FLEET SUPPORT-MISSILE													
DATA	0.272			0.080			0.081			0.083			0.084
GOVT IN-HOUSE SYSTEM ENGR/PROGRAM MGMT	11.768			2.773			2.832			2.212			2.659
PECULIAR SUPPORT EQUIPMENT /BOX-4	2.199			0.069			0.071			0.072			0.074
TRAINING EQUIP - DATM/NATMS	0.640									3.000			
TRAINING EQUIPMENT - Airborne Test Equip	1.263			0.783			0.793			0.800			0.804
TRAINING SUPPORT	0.541			0.106			0.107			0.135			0.062
TOTAL FLEET SUPPORT-MISSILE	16.683			3.811			3.884			6.302			3.683
Weapon System Cost	132.630	159	0.233	37.118	174	0.231	40.218	184	0.298	54.891	205	0.285	58.454
Modifications													
Initial Spares	3.500												
Total Program Cost	136.130			37.118			40.218			54.891			58.454

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)							Weapon System SIDEWINDER	A. DATE February 2007			
B. APPROPRIATION/BUDGET ACTIVITY						C. P-1 ITEM NOMENCLATURE					SUBHEAD
Weapons Procurement, Navy						220900, SIDEWINDER					J2ER
BA 2 - Other Missiles											
Cost Element/Fiscal Year	Qty	Unit Cost (M)	Location of PCO	RFP Issue Date	Contract Method & Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now	Date Revisions Available	
FY 2006	159	0.209	NAVAIR	05/2005	FFP	RAYTHEON MISSILE SYSTEMS, TUCSON, AZ	12/2005	05/2007	Yes		
FY 2007	174	0.209	NAVAIR	05/2006	FFP	RAYTHEON MISSILE SYSTEMS, TUCSON, AZ	12/2006	05/2008	Yes		
FY 2008	184	0.264	NAVAIR	12/2006	TBD	RAYTHEON MISSILE SYSTEMS, TUCSON, AZ	11/2007	05/2009	No		
FY 2009	205	0.267	NAVAIR	02/2008	TBD	RAYTHEON MISSILE SYSTEMS, TUCSON, AZ	11/2008	05/2010	No		

Remarks:

1. Unit cost calculation assumes NAVY, AIR FORCE and FMS quantities remain constant. Unit Cost consists of Total Hardware (AUR, CATM, ECO, Container, Production Technical Support and Special Tool and Test Equipment).

BUDGET ITEM JUSTIFICATION SHEET

DATE: February 2007

P-40

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

Weapons Procurement, Navy

BA 2 - Other Missiles

223000, Joint Standoff Weapon (JSOW)

Program Element for Code B Items:

Other Related Program Elements

Code B- P.E. 0204162N

0604727N

	Prior Years	ID Code	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Program
Quantity	2,311	A	420	390	421	504	521	541	530	552	3,610	9,800
Cost (\$M)	969.6		144.2	124.1	131.3	151.5	160.5	164.4	168.3	171.2	1,180.0	3,365.1
Initial Spares (\$M)	1.1		0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	2.4
Total (\$M)	970.7		144.5	124.3	131.5	151.6	160.6	164.5	168.4	171.4	1,180.0	3,367.5
Unit Cost (\$M)	0.4		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

MISSION AND DESCRIPTION:

Joint Standoff Weapon (JSOW) is a joint USN/USAF program with the USN as the lead service. The JSOW program provides an air-to-ground glide weapon (AGM-154) capable of attacking a variety of targets during day, night, and adverse weather conditions for use against fixed area targets. The JSOW will enhance aircraft survivability as compared to current interdiction weapon systems by providing the capability for launch aircraft to standoff outside the range of most target area surface-to-air threat systems. The JSOW Global Positioning System (GPS)/Inertial Navigation System (INS) capability will allow several target kills per aircraft sortie.

The JSOW Baseline variant (AGM-154A) has been integrated on USN (F/A-18C/D/E/F) and USAF (F-16C/D, B-2 and B-52) aircraft, with a Joint (A/F, USN) planned inventory of 3,323 units. USN will procure an inventory of 2,800 All-Up-Rounds (AURs) for integration on F/A-18 aircraft and the USAF has procured an inventory of 523 AURs for integration on F-16C/D, F-15E, B-1B, B-52, and B-2 aircraft. The JSOW BLU-108 (AGM-154B) variant provides an anti-armor/tank capability. Production of the AGM-154B variant has been deferred. The JSOW Unitary variant (AGM-154C) utilizes the common airframe of the AGM-154A and B variants and incorporates an infrared uncooled seeker with Autonomous Targeting Acquisition. The payload includes a 500 pound class Broach multi-stage warhead. AGM-154C was approved for Low Rate Initial Production on 26 June 2003. Full Rate Production of the AGM-154C began in December 2004. The Navy's planned inventory is 7,000 JSOW AGM-154C AURs. A moving/relocatable target capability is under development and planned to be incorporated in JSOW-C production units (AGM-154C-1 variant) beginning in FY09.

The USAF terminated their involvement in the JSOW program in FY05. Between PB04 and PB05, the JSOW-A (BLU-97) and JSOW-C (Unitary) unit cost increased as a result of significantly fewer quantities being produced in the FYDP. Additionally, below the line costs increased due to USAF withdrawal and USN requirement to fund costs that were previously shared. To offset the increased costs, the program manager has implemented a cost reduction initiative that has significantly reduced unit costs through manufacturing and supplier process efficiencies, and through design modifications aimed at reducing the cost of the airframe, guidance electronics unit and seeker beginning with the FY06 procurement. Production in the FYDP is focused on JSOW-C because of the low inventory and high demand for this weapon. JSOW-A production is temporarily deferred for two reasons: Raytheon ongoing development of an Unexploded Ordnance (UXO) solution to the BLU-97, and the Department's direction to accept risk in weapon quantity for area attack munitions. The anticipated UXO solution will involve the incorporation of a BLU-111 warhead into the JSOW-A weapon (AGM-154A-1). Production of the AGM-154A-1 variant was awarded in March 2006 in support of Turkey FMS requirements.

WEAPONS PROCUREMENT NAVY
MISSILE COST ANALYSIS
EXHIBIT P-5
(Dollars in Millions)

BLI - Nomenclature Popular Name: 223000, JSOW

AGM-154

Date: February 2007

Cost Elements	Prior Years	FY 2006	Quantity	420	FY 2007	Quantity	390	FY 2008	Quantity	421	FY 2009	Quantity	504
	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
HARDWARE - MISSILE													
ALL UP ROUND (AUR)	576.973	420	0.237	99.413	390	0.246	95.977	421	0.247	103.905	504	0.249	125.463
CONTRACTOR (WARRANTY / ECO / DATA)	111.308			10.542			10.536			9.412			5.829
LRIP-2 ACCELERATION	2.236												
TOTAL HARDWARE - MISSILE	690.517	420	0.262	109.955	390	0.273	106.513	421	0.269	113.317	504	0.261	131.292
PROCUREMENT SUPPORT - MISSILE													
COMMAND & LAUNCH / ST&E / MISSION / SW	53.645			4.055			1.127			0.945			0.993
CONTAINERS	21.965			3.829			3.693			3.934			4.718
GIH PRODUCTION SUPPORT	77.933			9.729			10.100			8.818			9.612
JMPS INTEGRATION	2.687												
LC GEU / CONTROL	11.056												
SPECIAL TOOLING & TEST EQUIPMENT (ST & TE)	81.244			12.484			1.273			1.014			4.111
TELEMETRY	18.115			2.055						2.000			
TOTAL PROCUREMENT SUPPORT - MISSILE	266.645			32.152			16.193			16.711			19.434
FLEET SUPPORT-MISSILE													
INTEGRATED LOGISTICS SUPPORT (ILS)	12.434			2.082			1.345			1.296			0.779
TOTAL FLEET SUPPORT-MISSILE	12.434			2.082			1.345			1.296			0.779
Weapon System Cost	969.596	420	0.343	144.189	390	0.318	124.051	421	0.312	131.324	504	0.301	151.505
Modifications													
Initial Spares	1.107			0.278			0.229			0.205			0.124
Total Program Cost	970.703			144.467			124.280			131.529			151.629

Remark: The FY2006 budget included funding in the Contractor ECO line for a life of type buy of obsolete seeker detector Read Only Integrated Circuit (ROIC) components. The FY2007 Contractor ECO line included funding for qualification/testing of an alternate seeker detector design to address the ROIC obsolescence issue. The FY2008 Contractor ECO line includes funding for the qualification/testing of a new processor/field programmable gate array (FPGA) to address a seeker obsolescence issue.

CLASSIFICATION:
UNCLASSIFIED

WEAPONS PROCUREMENT NAVY
MISSILE COST ANALYSIS
EXHIBIT P-5
(Dollars in Millions)

BLI - Nomenclature Popular Name: 223000, JSOW

AGM-154 A

Date: February 2007

Cost Elements	Prior Years	FY 2006	Quantity	0	FY 2007	Quantity	0	FY 2008	Quantity	0	FY 2009	Quantity	0
	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
HARDWARE - MISSILE													
ALL UP ROUND (AUR)	446.687												
CONTRACTOR (WARRANTY / ECO / DATA)	95.220												
LRIP-2 ACCELERATION	2.236												
TOTAL HARDWARE - MISSILE	544.143												
PROCUREMENT SUPPORT - MISSILE													
COMMAND & LAUNCH / ST&E / MISSION / SW	44.680												
CONTAINERS	18.922												
GIH PRODUCTION SUPPORT	75.342												
JMPS INTEGRATION	2.687												
LC GEU / CONTROL	11.056												
SPECIAL TOOLING & TEST EQUIPMENT (ST & TE)	57.789												
TELEMETRY	18.115												
TOTAL PROCUREMENT SUPPORT - MISSILE	228.591												
FLEET SUPPORT-MISSILE													
INTEGRATED LOGISTICS SUPPORT (ILS)	12.184												
TOTAL FLEET SUPPORT-MISSILE	12.184												
Weapon System Cost	784.918												
Modifications													
Initial Spares	1.107												
Total Program Cost	786.025												

Exhibit P-5, Cost Analysis
(Exhibit P-5, page 3 of 8)

CLASSIFICATION:
UNCLASSIFIED

CLASSIFICATION:
UNCLASSIFIED

WEAPONS PROCUREMENT NAVY
MISSILE COST ANALYSIS
EXHIBIT P-5
(Dollars in Millions)

BLI - Nomenclature Popular Name: 223000, JSOW

AGM-154 B

Date: February 2007

Cost Elements	Prior Years	FY 2006	Quantity	0	FY 2007	Quantity	0	FY 2008	Quantity	0	FY 2009	Quantity	0
	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
HARDWARE - MISSILE													
ALL UP ROUND (AUR)	14.496												
TOTAL HARDWARE - MISSILE	14.496												
PROCUREMENT SUPPORT - MISSILE													
COMMAND & LAUNCH / ST&E / MISSION / SW	0.644												
CONTAINERS	0.117												
GIH PRODUCTION SUPPORT	0.151												
SPECIAL TOOLING & TEST EQUIPMENT (ST & TE)	3.900												
TOTAL PROCUREMENT SUPPORT - MISSILE	4.812												
Weapon System Cost	19.308												
Modifications													
Initial Spares													
Total Program Cost	19.308												

Exhibit P-5, Cost Analysis
(Exhibit P-5, page 4 of 8)

CLASSIFICATION:
UNCLASSIFIED

WEAPONS PROCUREMENT NAVY
MISSILE COST ANALYSIS
EXHIBIT P-5
(Dollars in Millions)

BLI - Nomenclature Popular Name: 223000, JSOW

AGM-154 C

Date: February 2007

Cost Elements	Prior Years	FY 2006	Quantity	420	FY 2007	Quantity	390	FY 2008	Quantity	421	FY 2009	Quantity	504
	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
HARDWARE - MISSILE													
ALL UP ROUND (AUR)	115.790	420	0.237	99.413	390	0.246	95.977	421	0.247	103.905	504	0.249	125.463
CONTRACTOR (WARRANTY / ECO / DATA)	16.088			10.542			10.536			9.412			5.829
TOTAL HARDWARE - MISSILE	131.878	420	0.262	109.955	390	0.273	106.513	421	0.269	113.317	504	0.261	131.292
PROCUREMENT SUPPORT - MISSILE													
COMMAND & LAUNCH / ST&E / MISSION / SW	8.321			4.055			1.127			0.945			0.993
CONTAINERS	2.926			3.829			3.693			3.934			4.718
GIH PRODUCTION SUPPORT	2.440			9.729			10.100			8.818			9.612
SPECIAL TOOLING & TEST EQUIPMENT (ST & TE)	19.555			12.484			1.273			1.014			4.111
TELEMETRY				2.055						2.000			
TOTAL PROCUREMENT SUPPORT - MISSILE	33.242			32.152			16.193			16.711			19.434
FLEET SUPPORT-MISSILE													
INTEGRATED LOGISTICS SUPPORT (ILS)	0.250			2.082			1.345			1.296			0.779
TOTAL FLEET SUPPORT-MISSILE	0.250			2.082			1.345			1.296			0.779
Weapon System Cost	165.370	420	0.343	144.189	390	0.318	124.051	421	0.312	131.324	504	0.301	151.505
Modifications													
Initial Spares	0.000			0.278			0.229			0.205			0.124
Total Program Cost	165.370			144.467			124.280			131.529			151.629

Remark: The FY2006 budget included funding in the Contractor ECO line for a life of type buy of obsolete seeker detector Read Only Integrated Circuit (ROIC) components. The FY2007 Contractor ECO line included funding for qualification/testing of an alternate seeker detector design to address the ROIC obsolescence issue. The FY2008 includes funding in the Contractor ECO line for qualification/testing of a new processor/field programmable gate array (FPGA) to address the obsolescence issue in the seeker.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)							Weapon System JSOW		A. DATE February 2007			
B. APPROPRIATION/BUDGET ACTIVITY						C. P-1 ITEM NOMENCLATURE					SUBHEAD	
Weapons Procurement, Navy						BA 2 - Other Missiles					223000, JSOW	J2JS
Cost Element/Fiscal Year	Qty	Unit Cost (M)	Location of PCO	RFP Issue Date	Contract Method & Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now	Date Revisions Available		
FY 2006	420	0.237	NAVAIR	02/2005	SS-FFP	RAYTHEON MISSILE SYSTEMS COMPANY, TUCSON, AZ	01/2006	03/2007	Yes	N/A		
FY 2007	390	0.246	NAVAIR	04/2006	SS-FFP	RAYTHEON MISSILE SYSTEMS COMPANY, TUCSON, AZ	01/2007	03/2008	Yes	N/A		
FY 2008	421	0.247	NAVAIR	04/2006	SS-FFP	RAYTHEON MISSILE SYSTEMS COMPANY, TUCSON, AZ	12/2007	03/2009	Yes	N/A		
FY 2009	504	0.249	NAVAIR	04/2006	SS-FFP	RAYTHEON MISSILE SYSTEMS COMPANY, TUCSON, AZ	12/2008	03/2010	Yes	N/A		

Remarks: Unit Cost reflects All-Up Round Hardware.

FY 08 PRESIDENT BUDGET PRODUCTION SCHEDULE, P-21						DATE February 2007																										
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA-2						Weapon System						P-1 ITEM NOMENCLATURE BLI 223000 JOINT STANDOFF WEAPON (JSOW)																				
		Production Rate				Procurement Leadtimes																										
Item	Manufacturer's Name and Location					MSR	All variants			ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																	
							2-8-5	MAX*																								
Joint Standoff Weapon (JSOW)	Raytheon Company Tucson, AZ					240	720	1416			3	15	15	18	E																	
AGM-154A, AGM-154C																																
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2010															B A L										
							2009					CALENDAR YEAR 2010											2010					CALENDAR YEAR 2011				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C		J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
							JSOW-C/Raytheon Systems	2008	N	421	245	176	35	35	35	35	36															
JSOW-C/Raytheon Systems	2009	N	504	0	504						42	42	42	42	42	42	42	42	42	42	42					0						
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2012															B A L										
							2011					CALENDAR YEAR 2012											2012					CALENDAR YEAR 2013				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C		J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

Remarks: * Maximum rate assumes a 3-8-7 shift with existing tooling.

CLASSIFICATION: Unclassified

BUDGET ITEM JUSTIFICATION SHEET							DATE: February 2007					
P-40												
APPROPRIATION/BUDGET ACTIVITY Weapons Procurement, Navy/BA-2 Other Missiles							P-1 ITEM NOMENCLATURE 223100 SLAM-ER					
Program Element for Code B Items:							Other Related Program Elements 0604603N					
	Prior Years	ID Code	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
QUANTITY (SLAM-ER) (AWW-13)												
COST (In Millions)				\$60.7								\$60.7
<p>Narrative Description</p> <p>This program funds the development of a modification to the SLAM-ER missile and the AN/AWW-13 Data Link Pod to comply with the data link frequency selloff mandated by the Commercial Spectrum Enhancement Act (CSEA). The development will establish a retrofit kit for the missile and pod. All of the SLAM-ER missiles, projected at approximately 490, will be retrofit to the new configuration with the installation occurring at the recertification interval. The number of Pods to be converted will be determined by the fleet and is expected to be between 150 and 190.</p> <p>Includes \$60.7M transferred-in from the Spectrum Relocation Fund.</p>												

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2						P-1 LINE ITEM NOMENCLATURE STANDARD MISSILE SUBHEAD NO. A2FE BLIN: 2234							
Program Element for Code B Items 0604366N - SM-6 ERAM						Other Related Program Elements STANDARD MISSILE MODIFICATION BLI 235600							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity	10895	A/B		75	75	75	80	90	105	142	150	788	12475
COST (In Millions)	7,788.8	A/B		143.7	139.1	159.7	239.5	317.5	379.5	590.4	612.0	3,427.4	13,797.6
SPARES COST (In Millions)	244.8	A		17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	262.6
PROGRAM DESCRIPTION/JUSTIFICATION:													
<p>(U) The STANDARD Missile SM-2 Medium Range (MR) and Extended Range (ER) missiles are solid-propellant, tail-controlled surface-to-air missiles which are the main air defense battery for AEGIS guided missile cruisers and destroyers. The SM-2 Block IIIB, SM-2 Block IV and earlier variants are currently deployed. The STANDARD Missile-6 (SM-6) Extended Range Active Missile (ERAM) is being developed to provide defense for Sea Shield and enable Sea Basing and Sea Striking. SM-6 Low Rate Initial Production (LRIP) will begin in FY09.</p> <p>(U) Continually being upgraded to preserve battle group effectiveness against evolving cruise missile and anti-ship missile threats, SM-2 has improvements which will be procured for AEGIS cruisers and destroyers equipped with the MK41 Vertical Launch System (VLS). The SM-2 Block IIIB configuration, currently in production, improves the Block IIIA baseline through the Missile Homing Improvement Program (MHIP) to address a specific type of deployed threat. SM-2 Block IV, with a new separable booster, evolved from the Block IIIA baseline missile to provide greater kinematic capability and dramatic increases in performance.</p>													

CLASSIFICATION:			UNCLASSIFIED																	
EXHIBIT P-5 COST ANALYSIS							Weapon System						DATE February 2007							
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2							ID Code	P-1 LINE ITEM NOMENCLATURE STANDARD MISSILE SUBHEAD NO. A2FE												
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS																	
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009								
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost					
	<u>EQUIPMENT</u>																			
FE001	<u>SM-2 MISSILE HARDWARE</u>																			
	SM-2 BLK IIIB ALL UP ROUND MISSILE	A	7,310,601	75	923.1	69,231	75	954.0	71,551	75	1,345.5	100,915	60	1,076.4	64,585					
	TYPE I CANISTER - SM-2 BLK IIIB (MK-13)	A	0	75	34.7	2,602	75	39.1	2,929	75	39.9	2,992	60	40.7	2,444					
FE002	<u>SM-6 MISSILE HARDWARE</u>																			
	SM-6 ERAM ALL UP ROUND MISSILE	B	0	0	0.0	0	0	0.0	0	0	0.0	0	20	3,886.5	77,729					
	CANISTER - SM-6 ERAM (MK 21 MOD 3)	B	0	0	0.0	0	0	0.0	0	0	0.0	0	20	220.2	4,403					
	PRODUCTION START-UP	B	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	20,768					
FE003	SM-2 BLK IV	A	478,200	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0					
FE830	SM-2 PRODUCTION ENGINEERING/SUPPORT		0	0	0.0	38,315	0	0.0	31,792	0	0.0	26,644	0	0.0	24,083					
FE831	SM-6 PRODUCTION ENGINEERING/SUPPORT		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	10,818					
FE850	SM-2 COMPONENT IMPROVEMENT		0	0	0.0	7,211	0	0.0	7,637	0	0.0	5,537	0	0.0	5,157					
FE851	SM-6 COMPONENT IMPROVEMENT		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1,687					
FE950	SM-2 TOOLS AND TEST EQUIPMENT		0	0	0.0	11,280	0	0.0	10,741	0	0.0	10,057	0	0.0	8,656					
FE951	SM-6 TOOLS AND TEST EQUIPMENT		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	3,097					
FE957	SM-2 CONTAINERS		0	0	0.0	200	0	0.0	200	0	0.0	303	0	0.0	277					
FE958	SM-6 CONTAINERS		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	112					

CLASSIFICATION:			UNCLASSIFIED														
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)						Weapon System						DATE February 2007					
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2						ID Code	P-1 LINE ITEM NOMENCLATURE STANDARD MISSILE SUBHEAD NO. A2FE										
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS														
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
FE970	SM-2 INSTALL/CHECKOUT EQUIP/TRAINING MATERIAL		0	0	0.0	12,928	0	0.0	12,483	0	0.0	11,578	0	0.0	9,719		
FE971	SM-6 INSTALL/CHECKOUT EQUIP/TRAINING MATERIAL		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	3,852		
FE980	SM-2 ILS/FLEET DOCUMENTATION		0	0	0.0	1,954	0	0.0	1,778	0	0.0	1,641	0	0.0	1,506		
FE981	SM-6 ILS/FLEET DOCUMENTATION		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	620		
	TOTAL EQUIPMENT		7,788,801			143,721			139,111			159,667			239,513		
TOTAL			7,788,801			143,721			139,111			159,667			239,513		
Comment:																	
NOTES:																	
1. SM-2 support costs contained on this exhibit pay for efforts that support both newly produced All Up Round (AUR) missiles in BLI 223400, modified missile in BLI 235600 and common STANDARD Missile items/efforts. These support costs are non-severable by STANDARD Missile variant. SM-6 support costs include unique SM-6 support items/efforts as identified when the Acquisition Program Baseline (APB) was established.																	
2. FY08 SM-2 Block IIIB unit cost increase is based on zero SM-2 Block IIIB Modifications being procured in FY08 (BLI 235600) and includes \$10M for vendor requalification of rocket motor, warhead, and other components.																	

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2					P-1 LINE ITEM NOMENCLATURE STANDARD MISSILE BLIN: 2234				SUBHEAD A2FE		
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE	
FY 2006											
FE001 SM-2 MISSILE HARDWARE											
SM-2 BLK IIIB ALL UP ROUND MISSILE	75	923.1	NAVSEA		SS/FFP	RAYTHEON - TUCSON, AZ	FEB-06	MAR-08	YES		
TYPE I CANISTER - SM-2 BLK IIIB (MK-13)	75	34.7	NAVSEA		SS/FFP/IF	BAE - MINNEAPOLIS, MN	SEP-06	JAN-07	YES		
FY 2007											
FE001 SM-2 MISSILE HARDWARE											
SM-2 BLK IIIB ALL UP ROUND MISSILE	75	954.0	NAVSEA		SS/FFP	RAYTHEON - TUCSON, AZ	MAY-07	JAN-09	YES		
TYPE I CANISTER - SM-2 BLK IIIB (MK-13)	75	39.1	NAVSEA		SS/FFP/IF	BAE - MINNEAPOLIS, MN	MAY-07	JAN-08	YES		
FY 2008											
FE001 SM-2 MISSILE HARDWARE											
SM-2 BLK IIIB ALL UP ROUND MISSILE	75	1,345.5	NAVSEA		SS/FFP	RAYTHEON - TUCSON, AZ	JAN-08	JAN-10	YES		
TYPE I CANISTER - SM-2 BLK IIIB (MK-13)	75	39.9	NAVSEA		SS/FFP/IF	BAE - MINNEAPOLIS, MN	JAN-08	JAN-09	YES		
FY 2009											
FE001 SM-2 MISSILE HARDWARE											
SM-2 BLK IIIB ALL UP ROUND MISSILE	60	1,076.4	NAVSEA		SS/FFP	RAYTHEON - TUCSON, AZ	JAN-09	JAN-11	YES		
TYPE I CANISTER - SM-2 BLK IIIB (MK-13)	60	40.7	NAVSEA		SS/FFP/IF	BAE - MINNEAPOLIS, MN	JAN-09	JAN-10	YES		
FE002 SM-6 MISSILE HARDWARE											
SM-6 ERAM ALL UP ROUND MISSILE	20	3,886.5	NAVSEA		SS/CPAF	RAYTHEON - TUCSON, AZ	OCT-08	SEP-10		OCT-07	
CANISTER - SM-6 ERAM (MK 21 MOD 3)	20	220.2	NAVSEA		SS/FFP/IF	BAE - MINNEAPOLIS, MN	JAN-09	JAN-10		JUN-07	
Remarks:											
1. FY08 SM-2 Block IIIB unit cost increase is based on zero SM-2 Block IIIB Modifications being procured in FY08 (BLI 235600) and includes \$10M for vendor requalification of rocket motor, warhead, and other components.											

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2						P-1 LINE ITEM NOMENCLATURE ROLLING AIRFRAME MISSILE (RAM) SUBHEAD NO. A2EF BLIN: 2242							
Program Element for Code B Items 0604756N						Other Related Program Elements							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity	607	A		90	90	90	90	90	90	90	90	744	2071
COST (In Millions)	333.8			85.8	56.6	79.5	74.9	77.1	88.4	90.2	92.0	748.9	1,727.2
SPARES COST (In Millions)	21.8			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8
PROGRAM DESCRIPTION/JUSTIFICATION: Rolling Airframe Missile (RAM) is a high fire-power, low cost, lightweight ship self-defense system to engage anti-ship missiles. Block 1 adds the capability of Infrared all-the-way guidance while maintaining the original dual-mode passive Radio Frequency/Infrared (RF/IR) guidance (Block 0). The RAM missile is fired from a RAM Guided Missile Launching System (GMLS)(MK-49), which holds 21 RAM rounds. Approval for full rate Block 1 production, Milestone III was granted on 20 January 2000. FY06 funds will procure 90 Block 1 Missiles and 120 Block 1 ORDALTs. FY07 funds will procure 90 Block 1 Missiles. FY08 funds will procure 90 Block 1 Missiles and 57 Block 1 ORDALTs. FY09 funds will procure 90 Block 1 Missiles and 39 Block 1 ORDALTs.													
COOPERATIVE AGREEMENTS: RAM is a cooperative project with the Federal Republic of Germany. The RAM Production MOU, approved and signed by the U.S. and Germany (GE) on 3 August 1987, specifies production procedures for the Guided Missile Round Pack (GMRP) and co-production of the GMLS. Missile limited production contracts were awarded to U.S. (General Dynamics/Air Defense Systems Division) and German (RAM System GmbH) sources in 1989. As a result of the reduced U.S. missile quantities and a desire to maintain production capabilities in both countries, an arrangement between the U.S. and German producers, for single source co-production of the German full-rate production quantities, was approved by both governments in November 1992 and this arrangement continues for U.S. rate production. In August 1992, the acquisition of General Dynamics by Hughes Aircraft Company was approved, making Hughes Missile Systems Co. the U.S. prime contractor. In January 1998, Raytheon acquired Hughes Missile Systems Co., making Raytheon the U.S. prime contractor. The U.S. and Federal Republic of Germany signed a new Block 1 Production MOA on 18 December 2001 to cooperatively produce Block 1 missiles, launchers and ORDALTs.													

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE February 2007
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2	P-1 LINE ITEM NOMENCLATURE ROLLING AIRFRAME MISSILE (RAM) SUBHEAD NO. A2EF BLIN: 2242	
<p>EF001 - BLOCK 1 / 2 GUIDANCE & CONTROL ASSEMBLY (G&CA) AND GUIDED MISSILE ROUND PACKS (GMRPS) ORDALTS Hardware</p> <p>EF002 PROPULSION Procures Propulsion Rocket Motors for the Guided Missile Round Pack (GMRP).</p> <p>EF004 SAFE & ARM DEVICE Procures Safe & Arm Devices for the Guided Missile Round Pack (GMRP).</p> <p>EF005 ORDNANCE PACK Procures Ordnance Packs for the Guided Missile Round Pack (GMRP).</p> <p>EF006 WARHEAD Procures Warheads for the Guided Missile Round Pack (GMRP).</p> <p>EF007 CANISTER Procure Canisters for the Guided Missile Round Pack (GMRP).</p> <p>EF830 CONTRACTOR ENGINEERING AND GOVT IN-HOUSE ENGINEERING Funds Government & Contractor Engineering support.</p> <p>EF850 COMPONENT IMPROVEMENT Funds Missile component improvement (ECPs, etc.).</p> <p>EF860 PRODUCT ACCEPTANCE Funds field activity product acceptance efforts.</p>		

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE February 2007
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2	P-1 LINE ITEM NOMENCLATURE ROLLING AIRFRAME MISSILE (RAM) SUBHEAD NO. A2EF BLIN: 2242	
<p>EF957 CONTAINER Procures Containers for transporting the Guided Missile Round Pack (GMRP).</p> <p>EF974 ILS Funds Integrated Logistics Support efforts in support of production.</p>		

CLASSIFICATION:			UNCLASSIFIED														
EXHIBIT P-5 COST ANALYSIS							Weapon System ROLLING AIRFRAME MISSILE						DATE February 2007				
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2							ID Code	P-1 LINE ITEM NOMENCLATURE ROLLING AIRFRAME MISSILE (RAM) SUBHEAD NO. A2EF									
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS														
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
	<u>EQUIPMENT</u>																
EF001	<u>G&CA</u> BLOCK 1/2	A	216,169	90	420.4	37,840	90	430.1	38,710	90	440.0	39,601	90	450.1	40,512		
	<u>GMRP ORDALTS</u> BLOCK 1 / 2	A	25,981	120	257.1	30,855	0	0.0	0	57	284.3	16,205	39	299.0	11,661		
EF002	PROPULSION	A	6,365	90	12.7	1,146	90	13.0	1,172	90	13.3	1,199	90	13.6	1,227		
EF004	SAFE & ARM DEV	A	563	90	3.3	294	90	3.3	301	90	3.4	308	90	3.5	315		
EF005	ORDNANCE PACK	A	16,860	90	24.2	2,176	90	24.7	2,226	90	25.3	2,277	90	25.9	2,329		
EF006	WARHEAD	A	2,378	90	10.2	916	90	10.4	937	90	10.7	959	90	10.9	980		
EF007	CANISTER	A	12,326	90	41.8	3,764	90	42.8	3,850	90	43.8	3,939	90	44.8	4,030		
EF010	TELEMETER	A	4,047	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0		
EF830	<u>CONTRACTOR ENG</u> PROCUREMENT SUPPORT	A	10,115	0	0.0	2,126	0	0.0	1,798	0	0.0	1,839	0	0.0	1,881		
	<u>GOVT IN-HOUSE ENG</u> PROCUREMENT SUPPORT	A	16,476	0	0.0	2,439	0	0.0	2,621	0	0.0	2,681	0	0.0	2,743		
EF850	COMPONENT IMPROVEMENT	A	18,160	0	0.0	3,805	0	0.0	4,232	0	0.0	9,714	0	0.0	8,408		

CLASSIFICATION:			UNCLASSIFIED													
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)						Weapon System ROLLING AIRFRAME MISSILE						DATE February 2007				
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2						ID Code	P-1 LINE ITEM NOMENCLATURE ROLLING AIRFRAME MISSILE (RAM) SUBHEAD NO. A2EF									
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			Prior Years	FY 2006			FY 2007			FY 2008			FY 2009			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
EF860	PRODUCT ACCEPTANCE	A	2,267	0	0.0	205	0	0.0	255	0	0.0	261	0	0.0	267	
EF950	TOOL & TEST EQUIPMENT	A	1,205	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	
EF957	CONTAINER	A	895	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	
EF974	ILS	A	0	0	0.0	212	0	0.0	544	0	0.0	557	0	0.0	570	
	TOTAL EQUIPMENT		333,807			85,778			56,646			79,540			74,923	
TOTAL			333,807			85,778			56,646			79,540			74,923	
Comment: FY2007 - FY2010 Component Improvement includes requirements for dome retrofits.																

CLASSIFICATION:		UNCLASSIFIED								
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System ROLLING AIRFRAME MISSILE				DATE February 2007	
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2					P-1 LINE ITEM NOMENCLATURE ROLLING AIRFRAME MISSILE (RAM) BLIN: 2242				SUBHEAD A2EF	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2006										
EF001 G&CA										
BLOCK 1/2	90	420.4	NAVSEA	MAY-05	SS/FP	RAYTHEON, TUCSON, AZ	MAR-06	NOV-07	YES	
EF001 GMRP ORDALTS										
BLOCK 1 / 2	120	257.1	NAVSEA	MAY-05	SS/FP	RAYTHEON, TUCSON, AZ	MAR-06	NOV-07	YES	
EF002										
PROPULSION	90	12.7	NAVSEA	MAY-05	SS/FP	RAYTHEON, TUCSON, AZ	MAR-06	NOV-07	YES	
EF004										
SAFE & ARM DEV	90	3.3	NAVSEA	MAY-05	SS/FP	RAYTHEON, TUCSON, AZ	MAR-06	NOV-07	YES	
EF005										
ORDNANCE PACK	90	24.2	NAVSEA	MAY-05	SS/FP	RAYTHEON, TUCSON, AZ	MAR-06	NOV-07	YES	
EF006										
WARHEAD	90	10.2	NAVSEA	MAY-05	SS/FP	RAYTHEON, TUCSON, AZ	MAR-06	NOV-07	YES	
EF007										
CANISTER	90	41.8	NAVSEA	MAY-05	SS/FP	RAYTHEON, TUCSON, AZ	MAR-06	NOV-07	YES	
FY 2007										
EF001 G&CA										
BLOCK 1/2	90	430.1	NAVSEA	MAY-06	SS/FP	RAYTHEON, TUCSON, AZ	MAR-07	MAR-09	YES	
EF002										
PROPULSION	90	13.0	NAVSEA	MAY-06	SS/FP	RAYTHEON, TUCSON, AZ	MAR-07	MAR-09	YES	
EF004										
SAFE & ARM DEV	90	3.3	NAVSEA	MAY-06	SS/FP	RAYTHEON, TUCSON, AZ	MAR-07	MAR-09	YES	
EF005										
ORDNANCE PACK	90	24.7	NAVSEA	MAY-06	SS/FP	RAYTHEON, TUCSON, AZ	MAR-07	MAR-09	YES	
EF006										
WARHEAD	90	10.4	NAVSEA	MAY-06	SS/FP	RAYTHEON, TUCSON, AZ	MAR-07	MAR-09	YES	

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System ROLLING AIRFRAME MISSILE				DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2					P-1 LINE ITEM NOMENCLATURE ROLLING AIRFRAME MISSILE (RAM) BLIN: 2242				SUBHEAD A2EF		
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE	
EF007											
CANISTER	90	42.8	NAVSEA	MAY-06	SS/FP	RAYTHEON, TUCSON, AZ	MAR-07	MAR-09	YES		
FY 2008											
EF001 G&CA											
BLOCK 1/2	90	440.0	NAVSEA	MAY-07	SS/FP	RAYTHEON, TUCSON, AZ	NOV-07	NOV-09	YES		
EF001 GMRP ORDALTS											
BLOCK 1 / 2	57	284.3	NAVSEA	MAY-07	SS/FP	RAYTHEON, TUCSON, AZ	NOV-07	NOV-09	YES		
EF002											
PROPULSION	90	13.3	NAVSEA	MAY-07	SS/FP	RAYTHEON, TUCSON, AZ	NOV-07	NOV-09	YES		
EF004											
SAFE & ARM DEV	90	3.4	NAVSEA	MAY-07	SS/FP	RAYTHEON, TUCSON, AZ	NOV-07	NOV-09	YES		
EF005											
ORDNANCE PACK	90	25.3	NAVSEA	MAY-07	SS/FP	RAYTHEON, TUCSON, AZ	NOV-07	NOV-09	YES		
EF006											
WARHEAD	90	10.7	NAVSEA	MAY-07	SS/FP	RAYTHEON, TUCSON, AZ	NOV-07	NOV-09	YES		
EF007											
CANISTER	90	43.8	NAVSEA	MAY-07	SS/FP	RAYTHEON, TUCSON, AZ	NOV-07	NOV-09	YES		
FY 2009											
EF001 G&CA											
BLOCK 1/2	90	450.1	NAVSEA	MAY-08	SS/FP	RAYTHEON, TUCSON, AZ	NOV-08	NOV-10	YES		
EF001 GMRP ORDALTS											
BLOCK 1 / 2	39	299.0	NAVSEA	MAY-08	SS/FP	RAYTHEON, TUCSON, AZ	NOV-08	NOV-10	YES		
EF002											
PROPULSION	90	13.6	NAVSEA	MAY-08	SS/FP	RAYTHEON, TUCSON, AZ	NOV-08	NOV-10	YES		
EF004											
SAFE & ARM DEV	90	3.5	NAVSEA	MAY-08	SS/FP	RAYTHEON, TUCSON, AZ	NOV-08	NOV-10	YES		

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System ROLLING AIRFRAME MISSILE				DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2					P-1 LINE ITEM NOMENCLATURE ROLLING AIRFRAME MISSILE (RAM) BLIN: 2242				SUBHEAD A2EF		
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE	
EF005 ORDNANCE PACK	90	25.9	NAVSEA	MAY-08	SS/FP	RAYTHEON, TUCSON, AZ	NOV-08	NOV-10	YES		
EF006 WARHEAD	90	10.9	NAVSEA	MAY-08	SS/FP	RAYTHEON, TUCSON, AZ	NOV-08	NOV-10	YES		
EF007 CANISTER	90	44.8	NAVSEA	MAY-08	SS/FP	RAYTHEON, TUCSON, AZ	NOV-08	NOV-10	YES		

CLASSIFICATION:		UNCLASSIFIED																													
EXHIBIT P-21, PRODUCTION SCHEDULE																DATE: February 2007															
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2												Weapon System ROLLING AIRFRAME MISSILE				P-1 LINE ITEM NOMENCLATURE ROLLING AIRFRAME MISSILE (RAM) BLI: 2242															
						Production Rate				Procurement Leadtimes																					
Item		Manufacturer's Name and Location				MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total		Unit of Measure																
G&CA		RAYTHEON, TUCSON				90	20	480	0	3	24	24	27		MONTHS																
ITEM		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2006												FISCAL YEAR 2007												B A L
							CY 2005			CALENDAR YEAR 2006									CALENDAR YEAR 2007												
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	
G&CA/RAYTHEON, TUCSON		2002	N	90	60	30	7	8	7	8																		0			
G&CA/RAYTHEON, TUCSON		2003	N	106	0	106	30	30	30	16																		0			
G&CA/RAYTHEON, TUCSON		2004	N	90	0	90											8	7	8	7	8	7	8	7	8	7	8	7	0		
G&CA/RAYTHEON, TUCSON		2005	N	86	0	86																					15	71			
G&CA/RAYTHEON, TUCSON		2006	N	90	0	90																						90			
G&CA/RAYTHEON, TUCSON		2007	N	90	0	90																						90			
G&CA/RAYTHEON, TUCSON		2008	N	90	0	90																						90			
G&CA/RAYTHEON, TUCSON		2009	N	90	0	90																						90			
ITEM		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2008												FISCAL YEAR 2009												B A L
							CY 2007			CALENDAR YEAR 2008									CALENDAR YEAR 2009												
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	
G&CA/RAYTHEON, TUCSON		2005	N	86	15	71	15	15	15	15	11																	0			
G&CA/RAYTHEON, TUCSON		2006	N	90	0	90		8	7	8	7	8	7	8	7	8	7											0			
G&CA/RAYTHEON, TUCSON		2007	N	90	0	90																						37			
G&CA/RAYTHEON, TUCSON		2008	N	90	0	90			A																			90			
G&CA/RAYTHEON, TUCSON		2009	N	90	0	90																						90			
Remarks:																															

BUDGET ITEM JUSTIFICATION SHEET											DATE: February 2007	
P-40												
APPROPRIATION/BUDGET ACTIVITY						P-1 ITEM NOMENCLATURE						
Weapons Procurement, Navy BA 2 - Other Missiles						225400, HELLFIRE						
Program Element for Code B Items:						Other Related Program Elements						
	Prior Years	ID Code	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Program
Quantity	4549		1022	1111	439	1047	1047	1048	1048	1083	0	12394
Cost (\$M)	262.6		93.2	100.0	45.7	100.7	102.7	104.7	106.6	108.6	0.0	1024.7
Initial Spares (\$M)	0.9		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
Total (\$M)	263.5		93.2	100.0	45.7	100.7	102.7	104.7	106.6	108.6	0.0	1025.6
Unit Cost(\$M)	0.1		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1

MISSION AND DESCRIPTION:

Hellfire (AGM-114) is a laser guided missile primarily employed against point targets by rotary wing (RW) aircraft. There are two types of warheads: shaped charge (AGM-114 B/K) and blast fragmentation (AGM-114 M/N). Blast fragmentation variants are capable against soft targets, especially in a Military Operations Urban Terrain (MOUT) environment, making it the RW "weapon of choice" in the Global War On Terrorism (GWOT). Total expenditures of both variants in support of GWOT total nearly 1200 missiles. The AGM-114N, a Thermobaric blast fragmentation warhead, adds a unique capability against confined compartmented spaces, a typical target type observed in current combat operations. Because of the H-60 Armed Helo Requirement, this weapon is essential to Sea Shield and Sea Strike.

Of the amount shown above in FY 2006, \$38.0M for 422 (buy to budget) Hellfire (AGM-114) was provided in Title IX and \$55.2M for 600 (buy to budget) Hellfire (AGM-114) was provided in the FY 2006 GWOT Supplemental. The FY 2007 funding of \$100.0M was provided in Title IX for the procurement of 1,111 (buy to budget) Hellfire (AGM-114).

Beginning in FY2008, funding replenishes a portion of the inventory impacted by shelf-life and provides for Captive Air Training Missiles (CATMs), Inert missiles for training, production engineering changes, and other support costs.

Note: FY 2007 quantity finalized subsequent to completion of P-1.

WEAPONS PROCUREMENT NAVY
MISSILE COST ANALYSIS
EXHIBIT P-5
(Dollars in Millions)

BLI - Nomenclature Popular Name: 225400, HELLFIRE

Cost Elements	Prior Years	FY 2006	Quantity	1022	FY 2007	Quantity	1111	FY 2008	Quantity	439	FY 2009	Quantity	1047
	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
HARDWARE - MISSILE													
ALL UP ROUND (AUR)	213.604	1022	0.088	89.949	1111	0.081	90.000	439	0.074	32.486	1047	0.076	79.183
TOTAL HARDWARE - MISSILE	213.604	1022	0.088	89.949	1111	0.081	90.000	439	0.074	32.486	1047	0.076	79.183
PROCUREMENT SUPPORT - MISSILE													
ENGINEERING TECHNICAL SERVICES	0.041			0.204			0.369			0.325			0.333
GOVT IN-HOUSE SYSTEM ENGINEERING	40.272			0.800			9.631			2.478			6.662
TOTAL PROCUREMENT SUPPORT - MISSILE	40.313			1.004			10.000			2.803			6.995
Total Flyaway Cost	253.917	1022	0.089	90.953	1111	0.090	100.000	439	0.080	35.289	1047	0.082	86.178
FLEET SUPPORT-MISSILE													
INTEGRATED LOGISTICS SUPPORT (ILS)	6.423			1.047						0.337			0.420
TRAINING EQUIPMENT				1.200						10.110			14.075
TOTAL FLEET SUPPORT-MISSILE	6.423			2.247						10.447			14.495
OTHER MISSILE COSTS													
CONTAINERS	2.264												
TOTAL OTHER MISSILE COSTS	2.264												
Weapon System Cost	262.604	1022	0.091	93.200	1111	0.090	100.000	439	0.104	45.736	1047	0.096	100.673
Modifications													
Initial Spares	0.914												
Total Program Cost	263.518			93.200			100.000			45.736			100.673

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)							Weapon System HELLFIRE	A. DATE February 2007			
B. APPROPRIATION/BUDGET ACTIVITY						C. P-1 ITEM NOMENCLATURE					SUBHEAD
Weapons Procurement, Navy			BA 2 - Other Missiles			225400, HELLFIRE					J2F6
Cost Element/Fiscal Year	Qty	Unit Cost (M)	Location of PCO	RFP Issue Date	Contract Method & Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now	Date Revisions Available	
FY 2006*	1022	0.088	Huntsville, AL	02/2006	MIPR/FFP	Lockheed Martin, Orlando FL	03/2006	04/2006	YES		
FY 2007	1111	0.081	Huntsville, AL	11/2006	MIPR/FFP	Lockheed Martin, Orlando FL	01/2007	01/2009	YES		
FY 2008	439	0.074	Huntsville, AL	11/2007	MIPR/FFP	Lockheed Martin, Orlando FL	06/2008	06/2010	YES		
FY 2009	1047	0.076	Huntsville, AL	11/2008	MIPR/FFP	Lockheed Martin, Orlando FL	06/2009	06/2011	YES		

REMARKS

*Early delivery of 38 missiles received due to FMS assets that were made available.

BUDGET ITEM JUSTIFICATION SHEET											DATE: February 2007	
P-40												
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM NOMENCLATURE					
Weapons Procurement, Navy BA 2 - Other Missiles							228000, AERIAL TARGETS					
Program Element for Code B Items: 0204162N							Other Related Program Elements					
	Years	ID Code	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Program
Quantity												
Cost (\$M)	3,035.9	A	91.6	83.0	66.3	90.1	79.0	80.7	82.2	83.8	Cont.	Cont.
Initial Spares (\$M)	58.2		4.3	1.5	1.2	1.2	1.9	1.8	0.7	0.7	Cont.	Cont.
Total (\$M)	3,094.1		95.9	84.4	67.5	91.3	80.9	82.5	82.9	84.5	Cont.	Cont.
Unit Cost(\$M)	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MISSION AND DESCRIPTION:

The Aerial Targets Program provides powered targets, towed targets and necessary Target Auxiliary and Augmentation Systems (TA/AS) equipment for fleet training and weapons systems test and evaluation. This program is comprised of a series of continuing target production programs.

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS:

FY2008 major efforts include the continued procurement of Sub-Sonic Aerial Targets (SSAT), Supersonic Sea Skimming Targets (SSST) and TDU-32 Tow Targets. Continued TA/AS procurements include target command/control equipment, scoring equipment, location and identification equipment, navigation equipment, electronic countermeasures equipment, active emitter augmentation equipment and target control systems. The aerial targets and necessary TA/AS equipment provided from this program support Navy air-to-air and surface-to-air training and weapons systems developmental/operational testing.

Long Lead Components funds are for procurement of long lead items, specifically D6AC steel for production of GQM-163A ducted rocket housings.

WEAPONS PROCUREMENT NAVY
MISSILE COST ANALYSIS
EXHIBIT P-5
(Dollars in Millions)

BLI - Nomenclature Popular Name: 228000, AERIAL TARGETS

Cost Elements	Prior Years	FY 2006	Quantity	FY 2007		FY 2008		FY 2009					
	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost				
EM020 Anti-Air Warfare Target	175.470												
EM030 SUBSONIC AERIAL TARGET	553.689	60		40.756	60		34.744	25		18.947	60		41.155
EM200 OTHER TARGETS	209.611	19		35.397	13		32.500	14		33.783	14		34.973
EM300 TARGET AUX/AUG SYS	279.644			15.483			15.420			13.581			13.939
VARIOUS	1,817.484												
Gross Cost	3,035.898			91.636			82.664			66.311			90.067
LONG LEAD CREDIT										-0.300			-0.300
Net Cost	3,035.898			91.636			82.664			66.011			89.767
LONG LEAD COMPONENTS							0.300			0.300			0.300
Weapon System Cost	3,035.898	79		91.636	73		82.964	39		66.311	74		90.067
SPARES													
EM030 SUBSONIC AERIAL TARGET	0.455												0.232
EM200 OTHER TARGETS	0.896			2.973			0.600			0.511			0.376
EM300 TARGET AUX/AUG SYS	2.894			1.300			0.871			0.648			0.620
VARIOUS	53.947												
TOTAL SPARES	58.192			4.273			1.471			1.159			1.228
TOTAL PROGRAM	3,094.090			95.909			84.435			67.470			91.295

WEAPONS PROCUREMENT NAVY
MISSILE COST ANALYSIS
EXHIBIT P-5
(Dollars in Millions)

BLI - Nomenclature Popular Name: 228000, AERIAL TARGETS

EM030

Cost Elements	FY 2006 Quantity	Quantity Unit Cost	60 Total Cost	FY 2007 Quantity	Quantity Unit Cost	60 Total Cost	FY 2008 Quantity	Quantity Unit Cost	25 Total Cost	FY 2009 Quantity	Quantity Unit Cost	60 Total Cost
HARDWARE-OTHER-NON MISSILE												
Install/Mission Kits			4.135			3.846			3.895			3.943
Target	60	0.387	23.220	60	0.406	24.373	25	0.494	12.347	60	0.417	25.005
TOTAL HARDWARE-OTHER-NON MISSILE	60	0.456	27.355	60	0.470	28.219	25	0.650	16.242	60	0.482	28.948
PROCUREMENT SUPPORT-OTHER (NON-MISSILE)												
DOCUMENTATION			0.112			0.112			0.112			0.112
GOVERNMENT IN-HOUSE ENGINEERING			2.317			2.364			1.813			1.960
GOVERNMENT TEST PROGRAM												
TOTAL PROCUREMENT SUPPORT-OTHER (NON-MISSILE)			2.429			2.476			1.925			2.072
Total Flyaway Cost	60	0.496	29.784	60	0.512	30.695	25	0.727	18.167	60	0.517	31.020
FLEET SUPPORT COST-OTHER (NON-MISSILE)												
Ground Equipment			7.977			2.845			0.266			9.015
Install & Checkout			2.500			0.700						0.595
Integrated Logistics Support (ILS)			0.495			0.504			0.514			0.525
Training Devices												
TOTAL FLEET SUPPORT COST-OTHER (NON-MISSILE)			10.972			4.049			0.780			10.135
Weapon System Cost	60	0.679	40.756	60	0.579	34.744	25	0.758	18.947	60	0.686	41.155
Modifications												
Initial Spares												0.232
Total Program Cost			40.756			34.744			18.947			41.387

(Exhibit P-5, page 3 of 10)

WEAPONS PROCUREMENT NAVY
MISSILE COST ANALYSIS
EXHIBIT P-5
(Dollars in Millions)

BLI - Nomenclature Popular Name: 228000, AERIAL TARGETS EM200

Cost Elements	FY 2006			FY 2007			FY 2008			FY 2009		
	Quantity	Unit Cost	Total Cost									
HARDWARE-OTHER-NON MISSILE												
Install/Mission Kits	6	0.068	0.406	6	0.065	0.390	6	0.066	0.396	6	0.069	0.414
Supersonic Sea Skimming Target	19	1.702	32.331	13	2.022	26.286	14	2.069	28.959	14	2.109	29.526
Tow Targets	325	0.002	0.520	309	0.002	0.671	333	0.003	0.979	336	0.003	1.175
TOTAL HARDWARE-OTHER-NON MISSILE			33.257			27.347			30.334			31.115
PROCUREMENT SUPPORT-OTHER (NON-MISSILE)												
CONTRACTOR ENGINEERING						1.821			1.278			1.558
GOVERNMENT IN-HOUSE ENGINEERING			1.254			1.674			1.501			1.538
GOVERNMENT TEST PROGRAM												
PRODUCT IMPROVEMENT			0.561			1.174			0.380			0.467
SPECIAL TOOLING & TEST EQUIPMENT												
TOTAL PROCUREMENT SUPPORT-OTHER (NON-MISSILE)			1.815			4.669			3.159			3.563
Total Flyaway Cost			35.072			32.016			33.493			34.678
FLEET SUPPORT COST-OTHER (NON-MISSILE)												
Ground Equipment			0.325			0.484			0.290			0.295
TOTAL FLEET SUPPORT COST-OTHER (NON-MISSILE)			0.325			0.484			0.290			0.295
Long Lead Credit									-0.300			-0.300
Long Lead Components						0.300			0.300			0.300
Weapon System Cost			35.397			32.800			33.783			34.973
Modifications												
Initial Spares			2.973			0.600			0.511			0.376
Total Program Cost			38.370			33.400			34.294			35.349

(Exhibit P-5, page 4 of 10)

WEAPONS PROCUREMENT NAVY
MISSILE COST ANALYSIS
EXHIBIT P-5
(Dollars in Millions)

BLI - Nomenclature Popular Name: 228000, AERIAL TARGETS EM300

Cost Elements	FY 2006		FY 2007		FY 2008		FY 2009	
	Quantity	Unit Cost						
HARDWARE-OTHER-NON MISSILE								
Augmentation/Navigation Equipm								
Command/Control Equipment								
ECM/Emitter Equipment								
Install/Mission Kits								
Location/ID Equipment								
Scoring Equipment								
TOTAL HARDWARE-OTHER-NON MISSILE								
PROCUREMENT SUPPORT-OTHER (NON-MISSILE)								
DOCUMENTATION								
GOVERNMENT IN-HOUSE ENGINEERING								
GOVERNMENT TEST PROGRAM								
PRODUCT IMPROVEMENT								
TOTAL PROCUREMENT SUPPORT-OTHER (NON-MISSILE)								
Total Flyaway Cost								
FLEET SUPPORT COST-OTHER (NON-MISSILE)								
Ground Equipment								
Integrated Logistics Support (ILS)								
Training Devices								
TOTAL FLEET SUPPORT COST-OTHER (NON-MISSILE)								
Weapon System Cost								
Modifications								
Initial Spares								
Total Program Cost								

(Exhibit P-5, page 5 of 10)

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)							Weapon System AERIAL TARGETS	A. DATE February 2007		
B. APPROPRIATION/BUDGET ACTIVITY						C. P-1 ITEM NOMENCLATURE				SUBHEAD
Weapons Procurement, Navy						228000, AERIAL TARGETS				J2EM
BA 2 - Other Missiles										
Cost Element/FiscalYear	Qty	Unit Cost (000)	Location of PCO	RFP Issue Date	Contract Method &	Contractor and Location	Award Date	Date of First	Specs Available	Date Revisions
Subsonic Aerial Target FY 2006	60	387	NAVAIR	N/A	SS-FFP	Northrop-Grumman, Rancho Bernardo, CA	01/2006	02/2007	Yes	N/A
Subsonic Aerial Target FY 2007	60	406	NAVAIR	N/A	SS-FFP	Northrop-Grumman, Rancho Bernardo, CA	01/2007	02/2008	Yes	N/A
Subsonic Aerial Target FY 2008	25	494	NAVAIR	N/A	SS-FFP	Northrop-Grumman, Rancho Bernardo, CA	01/2008	02/2009	Yes	N/A
Subsonic Aerial Target FY 2009	60	417	NAVAIR	N/A	SS-FFP	Northrop-Grumman, Rancho Bernardo, CA	01/2009	02/2010	Yes	N/A
Supersonic Sea Skimming Target										
SSST/FY06-GQM-163A	19	1702	NAVAIR	N/A	SS-CPIF	Orbital Sciences, Chandler, AZ	12/2005	01/2007	Yes	N/A
SSST/FY07-GQM-163A	13	2022	NAVAIR	N/A	SS-FFP	Orbital Sciences, Chandler, AZ	12/2006	01/2008	Yes	N/A
SSST/FY08-GQM-163A	14	2069	NAVAIR	N/A	SS-FFP	Orbital Sciences, Chandler, AZ	12/2007	01/2009	Yes	N/A
SSST/FY09-GQM-163A	14	2109	NAVAIR	N/A	SS-FFP	Orbital Sciences, Chandler, AZ	12/2008	01/2010	Yes	N/A

FY 08/09 PRESIDENT'S BUDGET PRODUCTION SCHEDULE, P-21							DATE February 2007																																	
APPROPRIATION/BUDGET ACTIVITY							Weapon System							P-1 ITEM NOMENCLATURE																										
WEAPONS PROCUREMENT, NAVY/BA-2 - OTHER MISSILES														228000 AERIAL TARGETS																										
		Production Rate			Procurement Leadtimes																																			
Item	Manufacturer's Name and Location		MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																													
Subsonic Aerial Target	Northrop-Grumman, Rancho Bernardo, CA		2-5	20	40-45		4	13	13	17	E																													
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2006											FISCAL YEAR 2007											B A L											
							2005											CALENDAR YEAR 2006											CALENDAR YEAR 2007											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										
Subsonic Aerial Tgt./NORTHROP-GRUM	05	N	60	0	60							5	5	5	5	5	5	5	5	5	5	5										0								
Subsonic Aerial Tgt./NORTHROP-GRUM	06	N	60	0	60						A											5	5	5	5	5	5	5	5	5	20									
Subsonic Aerial Tgt./NORTHROP-GRUM	07	N	60	0	60																	A									60									
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2008											FISCAL YEAR 2009											B A L											
							2007											CALENDAR YEAR 2008											CALENDAR YEAR 2009											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										
Subsonic Aerial Tgt./NORTHROP-GRUM	06	N	60	40	20		5	5	5	5																					0									
Subsonic Aerial Tgt./NORTHROP-GRUM	07	N	60	0	60						5	5	5	5	5	5	5	5	5	5	5	5									0									
Subsonic Aerial Tgt./NORTHROP-GRUM	08	N	25	0	25					A												4	4	4	4	4	3	2		0										
Subsonic Aerial Tgt./NORTHROP-GRUM	09	N	60	0	60																	A								60										
Remarks:																																								

BUDGET ITEM JUSTIFICATION SHEET											DATE:	
P-40											February 2007	
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM NOMENCLATURE					
Weapons Procurement, Navy BA 2 - Other Missiles							228500, DRONES AND DECOYS					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Program
Quantity												
Cost (\$M)	318.6		16.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	335.4

MISSION AND DESCRIPTION:

Funding for Drones and Decoys from FY 1986 through FY 1993 was used for continued procurements of ADM-141 Tactical Air Launched Decoy (TALD) units, which are non-powered, glide trajectory driven vehicles. The ADM-141 TALD is an expendable of similar size to a 500 pound general purpose bomb and is carried similarly. After launched from strike aircraft, the ADM-141 TALD uses radar signature augmentation and preprogrammed flight profiles to simulate manned aircraft. Its mission is to deceive and saturate hostile radar controlled air defenses, thus enhancing strike aircraft survivability. Currently, the F/A-18, is fully qualified to deploy the ADM-141 TALD in both land based and CV operations.

The FY 2006 Congressional add of \$16.8M is to continue FY 2005 efforts and fund procurement of upgraded Improved Tactical Air Launch Decoys (ITALD).

BLI - Nomenclature Popular Name: 228500, DRONES AND DECOYS

Cost Elements	Prior Years	FY 2006	Quantity	40	FY 2007	Quantity	0	FY 2008	Quantity	0	FY 2009	Quantity	0
	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
HARDWARE-OTHER-NON MISSILE													
CONTAINERS	1.180												
ITALD	84.951	40	0.238	9.500									
TOTAL HARDWARE-OTHER-NON MISSILE	86.131	40	0.238	9.500									
PROCUREMENT SUPPORT-OTHER (NON-MISSILE)													
CONTRACTOR ENGINEERING	0.812			3.000									
DOCUMENTATION	0.466												
GOVERNMENT IN-HOUSE ENGINEERING	15.145			3.872									
GOVERNMENT TEST PROGRAM	3.633												
PRODUCT IMPROVEMENT	26.693												
SPECIAL TOOLING & TEST EQUIPMENT	0.260												
TOTAL PROCUREMENT SUPPORT-OTHER (NON-MISSILE)	47.009			6.872									
FLEET SUPPORT COST-OTHER (NON-MISSILE)													
Documentation	0.199												
Integrated Logistics Support (ILS)	0.784			0.400									
Training Devices	1.549												
TOTAL FLEET SUPPORT COST-OTHER (NON-MISSILE)	2.532			0.400									
VARIOUS 1/	182.967												
Total Program Cost	318.639			16.772									

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)							Weapon System DRONES AND DECOYS	A. DATE February 2007				
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					SUBHEAD		
Weapons Procurement, Navy					BA 2 - Other Missiles		228500, DRONES AND DECOYS					J2DJ
Cost Element/FiscalYear	Qty	Unit Cost (000)	Location of PCO	RFP Issue Date	Contract Method & Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now	Date Revisions Available		
ADM-141C/FY05	21	280	NAVAIR	N/A	SS/FP	Israeli Military Industries, Ramat Hasharon, IS	03/2006	07/2007	Yes	N/A		
ADM-141C/FY06	40	238	NAVAIR	N/A	SS/FP	Israeli Military Industries, Ramat Hasharon, IS	10/2007	11/2008	Yes	N/A		

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2						P-1 LINE ITEM NOMENCLATURE OTHER MISSILE SUPPORT SUBHEAD NO. A2FD BLIN: 2290							
Program Element for Code B Items						Other Related Program Elements							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0
COST (In Millions)	102.1			10.2	9.0	9.3	9.5	9.8	10.0	10.2	10.4	0.0	180.5
SPARES COST (In Millions)	5.3			0.8	0.8	0.4	0.2	0.9	0.7	0.3	0.1	0.0	9.5
PROGRAM DESCRIPTION/JUSTIFICATION:													
The MK-41 Vertical Launching System (VLS) is a surface combatant missile launching system, designed to store, select and launch various STANDARD Missile configurations, TOMAHAWK, Tactical TOMAHAWK, EVOLVED SEASPARROW (ESSM) and Vertical Launch ASROC (VLA) missiles. The MK-41 VLS significantly improves missile capacity, flexibility, multi-mission capability, reaction time and rate of fire and is designed to be adaptable to present and future weapon systems. Current configurations are: two 61 cell launchers, forward and aft, for 22 TICONDEROGA (CG 47) Class Cruisers beginning with CG-52; one 61 cell aft and one 29 cell launcher forward for 28 ARLEIGH BURKE (DDG 51) Class Destroyers; and one 64 cell launcher aft and one 32 cell launcher forward for 34 DDG 51 FLT IIA ships.													
FD970 - Funds ILS support for MK-41 VLS canisters and canister support equipment including Engineering Change Proposal (ECP) development, production support, and technical documentation.													
FD009 - Funds Procurement and installation of canister and gas management hardware including ECPS and ORDALTs.													

CLASSIFICATION:			UNCLASSIFIED														
EXHIBIT P-5 COST ANALYSIS						Weapon System						DATE February 2007					
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2						ID Code	P-1 LINE ITEM NOMENCLATURE OTHER MISSILE SUPPORT SUBHEAD NO. A2FD										
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS														
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
	<u>EQUIPMENT</u>																
FD009	CANISTER EQUIPMENT		16,889	0	0.0	3,737	0	0.0	2,978	0	0.0	3,038	0	0.0	3,091		
FD970	ILS SUPPORT		59,340	0	0.0	6,460	0	0.0	5,976	0	0.0	6,241	0	0.0	6,451		
	TOTAL EQUIPMENT		76,229			10,197			8,954			9,279			9,542		
TOTAL			76,229			10,197			8,954			9,279			9,542		

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2						P-1 LINE ITEM NOMENCLATURE EVOLVED SEA SPARROW MISSILE (ESSM) SUBHEAD NO. A2ES BLIN: 2307							
Program Element for Code B Items						Other Related Program Elements							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity	221			116*	108*	85	86	88	0	0	0	0	704
COST (In Millions)	339.9	A		98.5	99.2	83.3	85.8	75.2	15.5	15.8	16.1	0.0	829.3
SPARES COST (In Millions)	4.6			0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
PROGRAM DESCRIPTION/JUSTIFICATION:													
<p>The Evolved SEASPARROW Missile (ESSM) Program is an international cooperative effort to design, develop, test, and produce a new and improved version of the SPARROW missile (RIM-7P) with the kinematic performance to defeat current and projected threats that possess low altitude, high velocity and maneuver characteristics beyond the engagement capabilities of the RIM-7P. The ESSM will provide an evolved kinematically improved aft-end missile section for mating, as an all up round, with the modified RIM-7P forebody guidance and warhead section. The ESSM improvement will provide the capability to counter maneuvering anti-ship missiles, expand battle space, and increase system firepower. The ESSM is designed for "quad pack" use in the MK41 Vertical Launching System.</p> <p>ESSM is a cooperative effort among ten NATO SEASPARROW nations (Australia, Canada, Denmark, Germany, Greece, Netherlands, Norway, Spain, Turkey, and the U.S.). An addendum to the NATO SEASPARROW Surface Missile System Memorandum of Understanding (MOU), covering the Engineering and Manufacturing Development (EMD) phase of the ESSM was June 1995. The MOU for the cooperative production of ESSM was signed 27 December 1997 with a U.S. production intent of 2076 missiles. Authority to enter into Low Rate Initial Production (LRIP) for 207 missiles was granted 07 March 2001. Approval for Full Rate Production was given on 12 January 2004.</p> <p>The FY 08 request will support a contract award of 85 missiles plus the U.S. share of support as defined in the MOU. The FY 09 request will support a procurement of 86 missiles plus production support.</p> <p>*FY 2006 & FY 2007 quantity totals do not reflect program adjustments since finalizing P-1 quantities. The current program of record reflects a quantity of 102 in FY 2006 and 100 in FY 2007 for a total of 682 across the FYDP.</p>													

CLASSIFICATION:			UNCLASSIFIED												
EXHIBIT P-5 COST ANALYSIS						Weapon System EVOLVED SEASPARROW MISSILE (ESSM)						DATE February 2007			
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2						ID Code	P-1 LINE ITEM NOMENCLATURE EVOLVED SEA SPARROW MISSILE (ESSM) SUBHEAD NO. A2ES								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u>EQUIPMENT</u>														
ES001	<u>HC-434 PROPELLANT BINDER (SEASPARROW)</u>														
	FUZE ECP BACKFIT		4,700	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0
	MISSILE HARDWARE	A	600	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0
	<u>MK 25 QUADPACK CANISTERS</u>														
	MISSILE HARDWARE	A	14,758	16	324	5,184	21	317	6,657	16	323.0	5,168	16	341.0	5,456
	<u>MK 29 ALL UP ROUND</u>														
	MISSILE HARDWARE	A	25,058	54	582.9	31,411	26	598	15,542	23	646.0	14,857	22	660.0	14,520
	<u>MK 41/AEGIS ALL UP ROUND</u>														
	MISSILE HARDWARE	A	147,977	62	691	42,858	82	709	58,118	62	761.9	47,239	64	777.6	49,769
	<u>RANDOM LIFE OF TYPE BUY</u>														
	MISSILE HARDWARE	A	3,779	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0
	<u>ROCKET MOTORS (SEASPARROW)</u>														
	MISSILE HARDWARE	A	6,396	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0
	<u>SHIPPING CONTAINERS</u>														
	MISSILE HARDWARE	A	362	54	8	432	26	8	208	23	8.7	200	22	8.7	191
	<u>WARHEAD COMPATIBLE TELEMETER</u>														
	MISSILE HARDWARE	A	4,541	6	80	477	2	97	182	18	78.4	1,411	15	76.0	1,140

CLASSIFICATION:			UNCLASSIFIED												
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)						Weapon System EVOLVED SEASPARROW MISSILE (ESSM)						DATE February 2007			
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2						ID Code	P-1 LINE ITEM NOMENCLATURE EVOLVED SEA SPARROW MISSILE (ESSM) SUBHEAD NO. A2ES								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2006			FY 2007			FY 2008			FY 2009		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
ES830	<u>PERFORMANCE CHARACTERIZATION</u> PROCUREMENT SUPPORT		20,795	0	0.0	4,400	0	0.0	4,729	0	0.0	0	0	0.0	0
	<u>PRODUCTION ENGINEERING</u> PROCUREMENT SUPPORT		88,673	0	0.0	13,732	0	0.0	13,657	0	0.0	14,400	0	0.0	14,716
	<u>TOOLING AND TEST EQUIPMENT</u> PROCUREMENT SUPPORT		22,242	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0
	TOTAL EQUIPMENT		339,881			98,494			99,171			83,275			85,792
TOTAL		339,881			98,494			99,171			83,275			85,792	

CLASSIFICATION:		UNCLASSIFIED								
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System EVOLVED SEASPARROW MISSILE (ESSM)				DATE February 2007	
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2					P-1 LINE ITEM NOMENCLATURE EVOLVED SEA SPARROW MISSILE (ESSM) BLIN: 2307				SUBHEAD A2ES	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2006										
ES001 MK 25 QUADPACK CANISTERS MISSILE HARDWARE	16	324	NAVSEA	FEB-06	SS/FFP	BAE SYSTEMS, MINNEAPOLIS,	JUN-06	SEP-07	YES	
ES001 MK 29 ALL UP ROUND MISSILE HARDWARE	54	582.9	NAVSEA	JUN-04	SS/FFP OPT	RAYTHEON, TUCSON, AZ	DEC-05	DEC-07	YES	MAR-00
ES001 MK 41/AEGIS ALL UP ROUND MISSILE HARDWARE	62	691	NAVSEA	JUN-04	SS/FFP OPT	RAYTHEON, TUCSON, AZ	DEC-05	DEC-07	YES	MAR-00
ES001 SHIPPING CONTAINERS MISSILE HARDWARE	54	8	NAVSEA	JUN-04	SS/FFP OPT	RAYTHEON, TUCSON, AZ	DEC-05	DEC-07	YES	MAR-00
ES001 WARHEAD COMPATIBLE TELEMETER MISSILE HARDWARE	6	80	NAVSEA	JUN-04	SS/FFP OPT	RAYTHEON, TUCSON, AZ	DEC-05	DEC-07	YES	MAR-00
FY 2007										
ES001 MK 25 QUADPACK CANISTERS MISSILE HARDWARE	21	317	NAVSEA	FEB-07	SS/FFP	BAE SYSTEMS, MINNEAPOLIS,	JUN-07	SEP-08	YES	
ES001 MK 29 ALL UP ROUND MISSILE HARDWARE	26	598	NAVSEA	MAY-06	SS/FFP	RAYTHEON, TUCSON, AZ	JAN-07	DEC-08	YES	MAR-00
ES001 MK 41/AEGIS ALL UP ROUND MISSILE HARDWARE	82	709	NAVSEA	MAY-06	SS/FFP	RAYTHEON, TUCSON, AZ	JAN-07	DEC-08	YES	MAR-00
ES001 SHIPPING CONTAINERS MISSILE HARDWARE	26	8	NAVSEA	MAY-06	SS/FFP	RAYTHEON, TUCSON, AZ	JAN-07	DEC-08	YES	MAR-00
ES001 WARHEAD COMPATIBLE TELEMETER MISSILE HARDWARE	2	91	NAVSEA	MAY-06	SS/FFP	RAYTHEON, TUCSON, AZ	JAN-07	DEC-08	YES	MAR-00
FY 2008										
ES001 MK 25 QUADPACK CANISTERS MISSILE HARDWARE	16	323.0	NAVSEA	FEB-08	SS/FFP	BAE SYSTEMS, MINNEAPOLIS,	JUN-08	SEP-09	YES	

CLASSIFICATION:		UNCLASSIFIED								
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System EVOLVED SEASPARROW MISSILE (ESSM)				DATE February 2007	
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2					P-1 LINE ITEM NOMENCLATURE EVOLVED SEA SPARROW MISSILE (ESSM) BLIN: 2307				SUBHEAD A2ES	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE
ES001 MK 29 ALL UP ROUND MISSILE HARDWARE	23	646.0	NAVSEA	FEB-07	SS/FFP	RAYTHEON, TUCSON, AZ	DEC-07	DEC-09	YES	MAR-00
ES001 MK 41/AEGIS ALL UP ROUND MISSILE HARDWARE	62	761.9	NAVSEA	FEB-07	SS/FFP	RAYTHEON, TUCSON, AZ	DEC-07	DEC-09	YES	MAR-00
ES001 SHIPPING CONTAINERS MISSILE HARDWARE	23	8.7	NAVSEA	FEB-07	SS/FFP	RAYTHEON, TUCSON, AZ	DEC-07	DEC-09	YES	MAR-00
ES001 WARHEAD COMPATIBLE TELEMETER MISSILE HARDWARE	18	78.4	NAVSEA	FEB-07	SS/FFP	RAYTHEON, TUCSON, AZ	DEC-07	DEC-09	YES	MAR-00
FY 2009										
ES001 MK 25 QUADPACK CANISTERS MISSILE HARDWARE	16	341.0	NAVSEA	FEB-09	SS/FFP	BAE SYSTEMS, MINNEAPOLIS,	JUN-09	SEP-10	YES	
ES001 MK 29 ALL UP ROUND MISSILE HARDWARE	22	660.0	NAVSEA	FEB-08	SS/FFP	RAYTHEON, TUCSON, AZ	DEC-08	DEC-10	YES	MAR-00
ES001 MK 41/AEGIS ALL UP ROUND MISSILE HARDWARE	64	777.6	NAVSEA	FEB-08	SS/FFP	RAYTHEON, TUCSON, AZ	DEC-08	DEC-10	YES	MAR-00
ES001 SHIPPING CONTAINERS MISSILE HARDWARE	22	8.7	NAVSEA	FEB-08	SS/FFP	RAYTHEON, TUCSON, AZ	DEC-08	DEC-10	YES	MAR-00
ES001 WARHEAD COMPATIBLE TELEMETER MISSILE HARDWARE	15	76.0	NAVSEA	FEB-08	SS/FFP	RAYTHEON, TUCSON, AZ	DEC-08	DEC-10	YES	MAR-00

BUDGET ITEM JUSTIFICATION SHEET**DATE: February 2007****P-40**

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

Weapons Procurement, Navy BA 2**232700, HARM MODS**

Program Element for Code B Items:

Other Related Program Elements

0205601N**0205601N**

	Prior Years	ID Code	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Program
Quantity					29	54	54	81	142	276	1243	1879
Cost (\$M)		B	0.0	0.0	41.3	54.0	55.6	65.2	96.5	140.2	688.0	1140.8
Initial Spares (\$M)					2.2	2.1	1.9	2.2	2.2	2.0		12.6
Total (\$M)					43.5	56.1	57.5	67.3	98.7	142.2	688.0	1153.4

MISSION DESCRIPTION:

AGM-88E ADVANCED ANTI-RADIATION GUIDED MISSILE (AARGM): AARGM is an ACAT-1C acquisition program currently in System Development & Demonstration (SD&D) to upgrade the Legacy AGM-88 HARM missile with multi-mode guidance and targeting capability. The AARGM SD&D program will integrate multi-mode guidance (passive Anti-Radiation Homing (ARH)/active Millimeter Wave (MMW) Radar/Global Positioning system/Inertial Navigation System (GPS/INS)) on the HARM AGM-88 missile. AARGM weapon system capabilities include: active Millimeter Wave terminal guidance, counter shutdown, expanded threat coverage, enhanced anti-radiation homing receiver, netted targeting real-time feed via Integrated Broadcast Service (IBS) prior to missile launch, weapon impact assessment transmission prior to detonation, GPS/point-to-point weapon navigation, and weapon employment with impact avoidance zone/missile impact zones. Integrated Broadcast Service Receiver (IBSR) interfaces will enable the warfighter to directly receive national intelligence data, providing additional AARGM targeting data to increase overall pilot situational awareness. Full Rate Production (FRP) AGM-88E AARGM units will possess the capability to engage and destroy non-traditional suppression of enemy air defenses (SEAD) and GWOT targets.

FY2008 and FY2009 funding is requested for Low Rate Initial Production (LRP) (Lots 1 & 2) units and associated support costs.

P-1 Shopping List

ITEM NO 15

CLASSIFICATION:

UNCLASSIFIED

MODIFICATION TITLE: 232700, HARM MODS Subhead J2ES

MODELS OF SYSTEMS AFFECTED: AGM-88B TYPE MODIFICATION: AGM-88E AARGM

DESCRIPTION / JUSTIFICATION: AARGM is an ACAT-1C acquisition program to upgrade the Legacy AGM-88 HARM missile with multi-mode/ multi-spectral guidance and targeting. Currently completing its SDD phase, AARGM successfully completed its Critical Design Review in February 2006. Milestone C is scheduled for 2Q FY2008, with subsequent Low Rate Initial Production (LRIP) Lot 1 contract award in 3Q FY2008. LRIP 1 deliveries are scheduled to commence 2Q FY2009. Initial Operating Capability is scheduled for 4Q FY2009. Full Rate Production (FRP) Lot 1 contract award is scheduled for 1Q FY2010, with deliveries beginning 1Q FY2011.

Financial Plan (in Millions)	PRIOR YEARS		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		TO COMPLETE		TOTAL		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
RDT&E		325.494		76.442		91.976		32.773		6.001		3.478		3.276		3.332		3.386					220.664
PROCUREMENT																							
INSTALLATION KITS							25	15.422		50	27.649	48	25.168	69	34.742	123	58.785	252	112.669	1183	653.600	1750	928.035
INSTALLATION KITS - UNIT COST								0.617			0.553		0.524		0.504		0.478		0.447				3.123
INSTALLATION KITS NONRECURRING EQUIPMENT																							
EQUIPMENT NONRECURRING																							
ENGINEERING CHANGE ORDERS								5.421		4.524		4.461		2.279		3.145		1.190					21.020
DATA								0.172		0.286		0.277		0.399		0.768		1.208					3.110
GOVT IN-HOUSE ENGINEERING								5.579		5.970		4.428		3.607		3.876		1.756					25.216
TRAINING EQUIPMENT							4	2.468	4	2.212	6	3.146	12	6.042	19	9.081	24	10.730	60	34.400	129	68.079	
SUPPORT EQUIPMENT								6.483		6.574		6.494		6.122		5.448		0.133					31.254
OTHER																							
OTHER PRODUCTION SUPPORT								4.557		4.921		6.539		6.878		10.358		10.591					43.844
INTERIM CONTRACTOR SUPPORT																							
INSTALL COST																							
COMPONENTS INTEGRAL TO AUR																							
GOVT TEST PROGRAM - TELEMETRY																							
INTEGRATED LOGISTICS SUPPORT								1.200		1.830		5.122		5.100		5.028		1.900					20.180
TRANSPORTATION																							
TOTAL PROCUREMENT							29	41.302	54	53.966	54	55.635	81	65.169	142	96.489	276	140.177	1243	688.000	1879	1140.738	

*Total Procurement variation from P-40 Total Program due to rounding.

CLASSIFICATION: UNCLASSIFIED

Exhibit P-3a

MODELS OF SYSTEMS AFFECTED: AGM-88B

MODIFICATION TITLE: 232700, HARM MODS Subhead J2ES

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: CONTRACTOR ASSEMBLY AT PLANT

ADMINISTRATIVE LEADTIME: 7 Months PRODUCTION LEADTIME: 9 Months

CONTRACT DATES: FY 2006 _____ FY 2007 _____ FY 2008 Apr-08 FY 2009 Jan-09

DELIVERY DATE: FY 2006 _____ FY 2007 _____ FY 2008 Jan-09 FY 2009 Oct-09

(\$ in Millions)

Cost:	PRIOR YEARS		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		TO COMPLETE		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
PRIOR YEARS () EQUIPMENT																						0	0	
FY 2006 () EQUIPMENT																							0	0
FY 2007 () EQUIPMENT																							0	0
FY 2008 (29) EQUIPMENT									29														29	0
FY 2009 (54) EQUIPMENT										54													54	0
FY 2010 (54) EQUIPMENT											54												54	0
FY 2011 (81) EQUIPMENT												81											81	0
FY 2012 (142) EQUIPMENT													142										142	0
FY 2013 (1519) EQUIPMENT																	1519						1519	0
TO COMPLETE		0	0	0	0	0	0	0	0	29	0	54	0	54	0	81	0	142	0	1519	0	1519	0	

Installation Schedule

PRIOR YEARS	FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In														9	11	22	13	14	14	13	13	14	14	20
Out																29	13	13	14	14	13	13	14	14

	FY 2012				FY 2013				To Complete	Total
	1	2	3	4	1	2	3	4		
In	20	20	21	31	31	31	31	69	1468	1879
Out	20	20	20	21	35	35	36	36	1519	1879

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2						P-1 LINE ITEM NOMENCLATURE STANDARD MISSILES MODS SUBHEAD NO. A2FK BLIN: 2356							
Program Element for Code B Items						Other Related Program Elements STANDARD MISSILE BLI 223400							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity	773	A		86	169	0	97	83	70	70	70	CONT	1418
COST (In Millions)	432.9			56.5	58.4	0.0	70.9	61.9	52.8	53.8	54.9	CONT	842.1
SPARES COST (In Millions)	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	CONT	0.0
PROGRAM DESCRIPTION/JUSTIFICATION: The STANDARD Missile Modification Program modifies SM-2 Block II and III missiles into SM-2 Block IIIB missiles and modifies Block IV missiles. The program makes improvements in the operational readiness and electronic countermeasures performance of the missiles. The FY 2006 and 2007 program includes a Congressional add to upgrade additional rocket motors. These modifications are "turnkey" and do not involve separate install funding.													

CLASSIFICATION:			UNCLASSIFIED																	
EXHIBIT P-5 COST ANALYSIS							Weapon System						DATE February 2007							
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2							ID Code A	P-1 LINE ITEM NOMENCLATURE STANDARD MISSILES MODS SUBHEAD NO. A2FK												
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS																	
			Prior Years	FY 2006			FY 2007			FY 2008			FY 2009							
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost					
	<u>EQUIPMENT</u>																			
FK007	SM-2 BLOCK IIIB MODIFICATION	A	432,945	86	613.5	52,763	69	683.0	47,127	0	0.0	0	97	731.0	70,909					
FK007	SM-2 BLOCK IV MODIFICATION	A	0	0	0.0	0	100	72.8	7,281	0	0.0	0	0	0.0	0					
FKCA1	MK 104 ROCKET MOTOR UPGRADE	A	0	62	60.5	3,750	64	62.5	4,000	0	0.0	0	0	0.0	0					
	TOTAL EQUIPMENT		432,945			56,513			58,408			0			70,909					
TOTAL			432,945			56,513			58,408			0			70,909					
Comment:																				
1. Procurement Support and Fleet Support costs are contained on the STANDARD Missile budget exhibit (BLI 223400) to pay for efforts that support both newly produced All Up Round (AUR) missiles in BLI 223400 and modified missiles in BLI 235600. These support costs are non-severable by STANDARD Missile variant.																				
2. The FY06 SM-2 Block IIIB modification unit price includes Dual Thrust Rocket Motor (DTRM) and Primary Mirror Value Engineering Change Proposal (VECP) incorporation and Government Furnished Equipment credits.																				

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2					P-1 LINE ITEM NOMENCLATURE STANDARD MISSILES MODS BLIN: 2356				SUBHEAD A2FK		
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE	
FY 2006											
FK007 SM-2 BLOCK IIIB MODIFICATION	86	613.5	NAVSEA		SS/FFP	RAYTHEON - TUCSON, AZ	FEB-06	MAR-08	YES		
FKCA1 MK 104 ROCKET MOTOR UPGRADE	62	60.5	NAVSEA		SS/FFP	RAYTHEON - TUCSON, AZ	MAY-07	MAR-09	YES		
FY 2007											
FK007 SM-2 BLOCK IIIB MODIFICATION	69	683.0	NAVSEA		SS/FFP	RAYTHEON - TUCSON, AZ	MAY-07	JAN-09	YES		
FKCA1 SM-2 BLOCK IV MODIFICATION	100	72.8	NAVSEA		SS/CPAF	RAYTHEON - TUCSON, AZ	DEC-06	MAR-07	YES		
FKCA1 MK 104 ROCKET MOTOR UPGRADE	64	62.5	NAVSEA		SS/FFP	RAYTHEON - TUCSON, AZ	MAY-07	MAR-10			
FY 2009											
FK007 SM-2 BLOCK IIIB MODIFICATION	97	731.0	NAVSEA		SS/FFP	RAYTHEON - TUCSON, AZ	JAN-09	JAN-11	YES		
Remarks:											
1. The FY06 SM-2 Block IIIB modification unit price includes Dual Thrust Rocket Motor and Primary Mirror Value Engineering Change Proposal (VECP) incorporation and Government Furnished Equipment credits.											

CLASSIFICATION:		UNCLASSIFIED																																	
EXHIBIT P-21, PRODUCTION SCHEDULE																	DATE: February 2007																		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2													Weapon System					P-1 LINE ITEM NOMENCLATURE STANDARD MISSILES MODS BLI: 2356																	
						Production Rate					Procurement Leadtimes																								
Item		Manufacturer's Name and Location				MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																					
SM-2 BLOCK IIIB MODIFICATION		RAYTHEON, TUSCON, AZ				156	175	500	0	3	24	24	27	E																					
SM-2 BLOCK IV MODIFICATION		RAYTHEON - TUCSON, AZ				156	175	500	0	3	24	24	27	E																					
ITEM		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2006										FISCAL YEAR 2007										B A L								
							CY 2005					CALENDAR YEAR 2006					CALENDAR YEAR 2007																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P				
SM-2 BLOCK IIIB MODIFICATION	2005	N	79	0	79																		14									15	25	25	
SM-2 BLOCK IV MODIFICATION	2007	N	100	0	100																														79
ITEM		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2008										FISCAL YEAR 2009										B A L								
							CY 2007					CALENDAR YEAR 2008					CALENDAR YEAR 2009																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P				
SM-2 BLOCK IIIB MODIFICATION	2005	N	79	54	25			25																											0
SM-2 BLOCK IIIB MODIFICATION	2006	N	86	0	86						20																								0
SM-2 BLOCK IIIB MODIFICATION	2007	N	69	0	69																			6	6	5	6	6	5	6	6	6	6	6	17
SM-2 BLOCK IV MODIFICATION	2007	N	100	21	79	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	7
Remarks:																																			
1. SM-2 Block IIIB production rates apply to All Up Round (AUR) missiles in STANDARD Missile BLI 223400 and modified missiles in STANDARD Missile Modification BLI 235600.																																			

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Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2						P-1 LINE ITEM NOMENCLATURE WEAPONS INDUSTRIAL FACILITIES SUBHEAD NO. 82FU BLIN: 2420							
Program Element for Code B Items						Other Related Program Elements							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity													
COST (In Millions)	129.0			30.1	64.4	3.7	3.3	3.4	3.5	3.5	3.6	0.0	243.5
SPARES COST (In Millions)	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PROGRAM DESCRIPTION/JUSTIFICATION:													
This budget provides the following:													
- Close, deactivate, prepare and convey the Government-owned contractor operated (GOCO), Naval Weapons Industrial Reserve plant (NWIRP) Bedford, MA													
- Supports Capital Type Rehabilitation projects at the GOCO plant, Naval Industrial Reserve Ordnance plant (NIROP) Allegany Ballistics Laboratory (ABL), WV. NIROP ABL supports weapons systems such as Sparrow, ESSM, ERGM, AIM-9X, Ramjet, AGS, Tomahawk GG and Trident GG. Federal Acquisition Regulation Part 52.245-7 specifies that Facilities Use contracts require that the government fund capital type rehabilitation projects to support and maintain these facilities. These plants have an average age of 45 years and lack of proper maintenance will limit capabilities to maintain scheduled production rates and overall productivity. Funding is separated to reflect environmental, safety, major repair, energy conservation and facilities restoration.													
FU002 CAPITAL TYPE REHABILITATION													
-ENVIRONMENTAL: Provides funds to eliminate environmental deficiencies in compliance with local, state, and federal regulations. These regulations mandate requirements which must be met if plant shutdowns, criminal liability, and severe financial penalties are to be avoided.													
- SAFETY: Provides funds to eliminate safety deficiencies in compliance with local, state, and federal OSHA regulations. These regulations mandate requirements which must be met if plant shutdowns and severe financial penalties are to be avoided.													
- MAJOR REPAIR: Provides funds for critical upgrades to maintain high liability areas such as fire and security systems, roofs, boilers, electrical distribution systems, bridge crane systems, and other structural repairs essential to maintain the industrial integrity of the plant.													
- ENERGY CONSERVATION: Provides funds to decrease energy consumption by installing new energy efficient systems and provides increased maintenance on these systems.													

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Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE February 2007
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2	P-1 LINE ITEM NOMENCLATURE WEAPONS INDUSTRIAL FACILITIES SUBHEAD NO. 82FU BLIN: 2420	
Mandated in 1993 by Congress (Defense Appropriations Committee).		
FUCA1 FACILITIES RESTORATION Provides funds for replacement of Weapons Industrial Facilities at NIROP ABL in Rocket Center, WV that have exceeded their useful life and deteriorated beyond safe operations (personnel & explosive).		
FU020 GOVERNMENT-OWNED CONTRACTOR-OPERATED FACILITIES DIVESTITURE This item provides funding to/for: - Property management, minor maintenance, environmental compliance and divestiture support for Naval Weapons Industrial Reserve Plant McGregor, TX.		

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EXHIBIT P-5 COST ANALYSIS						Weapon System						DATE February 2007					
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 2						ID Code	P-1 LINE ITEM NOMENCLATURE WEAPONS INDUSTRIAL FACILITIES SUBHEAD NO. 82FU										
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS														
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
FU002	<u>EQUIPMENT</u>																
	<u>CAPITAL TYPE REHABILITATION</u>																
	ENVIRONMENTAL			2,213			2,135			2,193			1,696		1,700		
	SAFETY			977			1,018			1,027			750		780		
	ENERGY CONSERVATION			822			959			668			610		703		
	MAJOR REPAIRS			0			0			0			121		98		
FUCA1	<u>FACILITIES RESTORATION</u>																
	FACILITIES RESTORATION (ABL)			29,151			25,941			60,000			0		0		
FU020	<u>GOVERNMENT-OWNED CONTRACTOR-OPERATED FAC</u>																
	NWIRP MCGREGOR			95,810			0			497			498		0		
	TOTAL EQUIPMENT			128,973			30,053			64,385			3,675		3,281		
TOTAL				128,973			30,053			64,385			3,675		3,281		

BUDGET ITEM JUSTIFICATION SHEET						DATE February 2007					
APPROPRIATION/BUDGET ACTIVITY						P-1 ITEM NOMENCLATURE				SUBHEAD	
WP,N - BA2 OTHER MISSILES						Fleet Satellite Communications Follow-On 2433				52EU	
		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TO COMP	TOTAL
QUANTITY				Various	Various	Various	Various	Various	Various	Various	Various
COST (in millions)		\$ -	\$ -	\$ 215.834	\$ 330.060	\$ 529.897	\$ 522.497	\$ 225.392	\$ 70.915	\$ 819.633	\$ 2,714.228
PROGRAM COVERAGE:											
This Budget Line funds two major components:											
1.) The Mobile User Objective System (MUOS) satellites and launch vehicles											
2.) The Ultra-High Frequency (UHF) Follow-On (UFO) Telemetry, Tracking and Command (TT&C) Terminals											
<u>1.) MUOS:</u>											
The MUOS will provide a worldwide, multi-service population of mobile and fixed-site terminal users with narrowband beyond line of sight satellite communications (SATCOM) services. Capabilities will include a considerable increase to current narrowband SATCOM capacity as well as a significant improvement in availability for small terminals. The MUOS will eventually replace the UFO system while providing continued interoperability with legacy terminals.											
Using RDTE funds, Concept Exploration contracts were awarded in early FY 2000 and completed in late FY 2001. Two RDTE-funded Component Advancement Development (CAD) contracts were awarded in Q4 FY 2002. A RDTE-funded Risk Reduction and Design Development (RRDD) contract was awarded in September 2004 for the first two satellites, system engineering and associated ground infrastructure. WPN funds will be used to procure the remaining four satellites and launch services for all six satellites. Military Construction (MILCON) funds are required to prepare MUOS ground sites located in Sicily (Niscemi location), Virginia (Northwest location) and Hawaii (Wahiawa location).											
The 2008 President's Budget reflects an OSD-directed decrease of \$180M in FY 2009. OSD also directed an increase of RDT&E, N funding. These changes were the a result of direction from the MUOS Milestone Decision Authority (MDA) to fund the program to the OSD Cost and Analysis Improvement Group's (CAIG) estimate. These changes reflect the critical need for the MOUS system to remain on schedule as the preceding UFO system is rapidly degrading. The RDT&E,N funds will be used for risk mitigation on the first two satellites.											
The 2008 President's Budget reflects an increase in the unit cost of the EELV launch vehicles.											
<u>The MUOS WPN funding for FY 2008 will support:</u>											
- Advance Procurement required for the third (#3) MUOS satellite											
- EELV costs for the first (#1) MUOS satellite											
<u>The MUOS WPN funding for FY 2009 will support:</u>											
- Advance Procurement required for the fourth (#4) MUOS satellite											
- Procurement of the third (#3) MUOS satellite											
<u>2.) UFO TT&C Terminals</u>											
Updates to the ground UFO TT&C terminals that support UFO on-orbit operations are included. RDTE funds in the amount of \$10.5M in FY 2007 and \$2.5M in FY 2008 will be used for UFO TT&C software and firmware development and procurement and installation of two prototype terminals.											
<u>The UFO WPN funding for FY 2008 will support:</u>											
- UFO TT&C terminal procurements											
<u>The UFO WPN funding for FY 2009 will support:</u>											
- UFO TT&C terminal installations											

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COST ANALYSIS													DATE						
													February 2007						
APPROPRIATION ACTIVITY										P-1 ITEM NOMENCLATURE						SUBHEAD			
WP,N - BA-2 OTHER MISSILES										Fleet Satellite Communications Follow-On 2433						52EU			
TOTAL COST IN THOUSANDS OF DOLLARS																			
COST CODE	ELEMENT OF COST	ID CODE	PY	FY 2005				FY 2006			FY 2007			FY 2008			FY 2009		
			TOTAL COST	QTY	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
EU450	TT&C Terminals (UFO)	A												3	\$3,000	\$9,000			
EU460	TT&C Terminals Installation (UFO) TT&C Terminals Pre-Installation Design (UFO)	A														\$1,160			\$2,000
EU470	TT&C Terminals Production Support (UFO)	A														\$540			
EU500	Advance Procurement (MUOS)	B														\$26,945			\$27,776
EU510	Satellite Procurement (MUOS)	B															1	\$294,512	\$294,512
EU520	EELV Launch Vehicles (MUOS)	B												1	\$162,421	\$162,421			
EU530	Production Support (MUOS)	B														\$15,768			\$5,772
Total Control			\$0				\$0			\$0			\$0			\$215,834			\$330,060

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PROCUREMENT HISTORY AND PLANNING											A. DATE February 2007	
B. APPROPRIATION/BUDGET ACTIVITY WP,N - BA2 OTHER MISSILES						C. P-1 ITEM NOMENCLATURE Fleet Satellite Communications Follow-On 2433					SUBHEAD 52EU	
COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
EU450	TT&C Terminals (UFO)	FY08	Raytheon / Marlborough, MA	D/FFP	SPAWAR	N/A	Dec-07	Mar-09	3	3,000	NO	Nov-07
EU500	Advance Procurement (MUOS)	FY08	Lockheed Martin / Sunnyvale, CA	FPIF/AF	SPAWAR	N/A	Oct-07	Mar-12	0	26,945	NO	Sep-07
EU510	Satellite Procurement (MUOS)	FY09	Lockheed Martin / Sunnyvale, CA	FPIF/AF	SPAWAR	N/A	Oct-08	Mar-12	1	294,512	NO	Sep-08
EU520	EELV Launch Vehicles (MUOS)	FY08	Lockheed Martin, CO	FFP/CPAF	EELV, SMC	N/A	Oct-07	Oct-09	1	162,421	NO	Sep-07
D. REMARKS												

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Exhibit P-10 Advance Procurement Requirements Analysis (Page 1 - Funding)	Date: <p style="text-align: right;">February 2007</p>
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number: 1507/EU500/2/0/243300	P1 Line Item Nomenclature: <p style="text-align: center;">Fleet Satellite Communications Follow-On</p>

Weapon System: MUOS	First System (FY08) Award and Completion Date: 10/07 - 3/12	Interval Between Systems: 1 Year
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(\$ in Millions)													
	PLT (in months)	When Rqd	PY	FY 2006	FY 2007	FY 2008	FY2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
End Item Qty	41						1	1	1			1	4
Bus Subsystem		20				7.9	8.1	8.4	0.0	0.0	0.0	15.5	39.9
Base-to-User (B2U) Payload Subsystem		14				7.0	7.2	7.4	0.0	0.0	0.0	13.6	35.2
User-to-Base (U2B) Payload Subsystem		14				3.0	3.1	3.2	0.0	0.0	0.0	5.9	15.2
Legacy Subsystem		14				1.5	1.6	1.7	0.0	0.0	0.0	3.1	7.9
Antenna Subsystem		20				4.9	5.1	5.3	0.0	0.0	0.0	9.7	25.0
Secure Telemetry, Tracking and Command (TT&C) Subsystem		14				2.6	2.7	2.8	0.0	0.0	0.0	5.2	13.3
Total AP			0.0	0.0	0.0	26.9	27.8	28.8	0.0	0.0	0.0	53.0	136.6

Notes:
 1.) End item quantities refer to cost code EU510 units - Satellite Procurement (MUOS).
 2.) Schedule profile for Bus Subsystem is provided below as an example.

<p>Advance Procurement Contract Award</p> <p>▼</p> <div style="border: 1px solid black; padding: 5px; margin: 5px auto; width: 80%;"> <p style="text-align: center;">Advance Procurement (12 mos)</p> </div>	<p>End Item Contract Award</p> <p>▼</p> <div style="border: 1px solid black; padding: 5px; margin: 5px auto; width: 80%;"> <p style="text-align: center;">Manufacturing (End Item PLT: 41 mos)</p> </div>
<p>20 Months into the Manufacturing Process, the bus subsystem must be incorporated into end item</p> <p style="text-align: center;">●—————●</p> <p style="text-align: center;">("When Rqd" = 20 mos).</p>	
<p>It takes 24 months to build the bus subsystem</p> <p style="text-align: center;">●—————●</p> <p style="text-align: center;">("PLT for Bus Subsystem" = 24 Months)</p>	

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Exhibit P-10 Advance Procurement Requirements Analysis (Page 3 - AP Savings)					Date: February 2007						
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number: 1507/EU500/2/0/243300					Weapon System: MUOS		P1 Line Item Nomenclature: Fleet Satellite Communications Follow-On				

(\$ in Millions)											
	PY	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Proposal w/o AP											
Then Year Cost											
Constant Year Cost											
Present Value											
AP Proposal											
Then Year Cost											
Constant Year Cost											
Present Value											
Difference											
Then Year Cost											
Constant Year Cost											
Present Value											
AP Savings											

Notes:
1) Costs without Advance Procurement could not be determined because without Advance Procurement, MUOS could not meet its schedule requirements.

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**Exhibit P-10 Advance Procurement Requirements Analysis
(Page 4 - Execution)**

Date:
February 2007

Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number:
1507/EU500/2/0/243300

Weapon System:
MUOS

P1 Line Item Nomenclature:
Fleet Satellite Communications Follow-On

(\$ in Millions)

	PLT	PY QTY	PY Total Cost	FY 2006 QTY	FY 2006 Contract Forecast Date	FY 2006 Actual Contract Date	FY 2006 Actual Cost	FY 2007 QTY	FY 2007 Contract Forecast Date	FY 2007 Actual Contract Date	FY 2007 Actual Cost	FY 2008 QTY	FY 2008 Contract Forecast Date	FY 2008 Actual Contract Date	FY 2008 Actual Cost	FY 2009 QTY	FY 2009 Contract Forecast Date	FY 2009 Actual Contract Date	FY 2009 Actual Cost
End Item Qty						N/A	N/A												
Bus Subsystem	24																		
Base-to-User (B2U) Payload Subsystem	22																		
User-to-Base (U2B) Payload Subsystem	22																		
Legacy Subsystem	21																		
Antenna Subsystem	23																		
Secure TT&C Subsystem	16																		
Total AP																			

Notes:

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Exhibit P-10 Advance Procurement Requirements Analysis (Page 4 - Execution)							Date: February 2007						
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number: 1507/EU500/2/0/243300				Weapon System: MUOS			P1 Line Item Nomenclature: Fleet Satellite Communications Follow-On						

(\$ in Millions)													
	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Total
FY 2006 Termination Liability Schedule													
FY 2006 Expenditures													
	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Total
FY 2007 Termination Liability Schedule													
FY 2007 Expenditures													
	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Total
FY 2008 Termination Liability Schedule													
FY 2008 Expenditures													
	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Total
FY 2008 Termination Liability Schedule													
FY 2008 Expenditures													

Notes:

1.) The WPN satellites are fixed priced CLINs, the termination liability is included in the cost of the satellite and not separately priced.

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MODIFICATION TITLE: Fleet Satellite Communications Follow-On
 COST CODE: EU450
 MODELS OF SYSTEMS AFFECTED: Ultra-High Frequency (UHF) Follow-On (UFO) Telemetry, Tracking and Command (TT&C) Terminals
 DESCRIPTION/JUSTIFICATION: Provides for upgrades to the Telemetry, Tracking and Command (TT&C) Terminals which support UFO on-orbit operations required in order to maintain the UFO Constellation availability

February 2007

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	PY		FY05		FY06		FY07		FY08		FY09		FY10		FY11		FY12		FY13		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																									
PROCUREMENT:																									
Kit Quantity																									
Installation Kits																									
Installation Kits Nonrecurring																									
Equipment									3	9.0													3	9.0	
Equipment Nonrecurring (Racks)																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Production Support											0.5													0.5	
Pre-Installation Design											1.2													1.2	
Interim Contractor Support																									
Installation of Hardware*											3	2.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	2.0	
PRIOR YR EQUIP																							0	0.0	
FY 06 EQUIP																							0	0.0	
FY 07 EQUIP																							0	0.0	
FY 08 EQUIP											3	2.0											3	2.0	
FY 09 EQUIP																							0	0.0	
FY 10 EQUIP																							0	0.0	
FY 11 EQUIP																							0	0.0	
FY 12 EQUIP																							0	0.0	
FY 13 EQUIP																							0	0.0	
FY TC EQUIP																							0	0.0	
TOTAL INSTALLATION COST	0.0		0.0		0.0		0.0		1.2		2.0		0.0		0.0		0.0		0.0		0.0		0.0	3.2	
TOTAL PROCUREMENT	0.0		0.0		0.0		0.0		10.7		2.0		0.0		0.0		0.0		0.0		0.0		0.0	12.7	

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEAD-TIME: 2 Months PRODUCTION LEAD-TIME: 16 Months

CONTRACT DATES: FY 2006: NA FY 2007: NA FY 2008: Dec-07 FY 2009: NA

DELIVERY DATES: FY 2006: NA FY 2007: NA FY 2008: Mar-09 FY 2009: NA

INSTALLATION SCHEDULE:

	PY	FY 07				FY 08				FY 09				FY 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INPUT	0											2	1				
OUTPUT	0											2	1				

INSTALLATION SCHEDULE:

	FY 11				FY 12				FY 13				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT													0	3
OUTPUT													0	3

Notes/Comments

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3						P-1 LINE ITEM NOMENCLATURE SSTD SUBHEAD NO. H3TD BLIN: 3113							
Program Element for Code B Items						Other Related Program Elements							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0
COST (In Millions)	0.0			3.9	5.8	0.0	8.5	4.1	4.1	7.6	2.5	0.0	36.5
SPARES COST (In Millions)	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PROGRAM DESCRIPTION/JUSTIFICATION:													
The Surface Ship Torpedo Defense (SSTD) WPN account procures Torpedo Countermeasures, Anti-Torpedo Torpedo (ATT) LRIP units. The ATT is derived from the Common Very Lightweight Torpedo (CVLWT) EDM-2 development design initiated in FY07 under PE 0603506N.													
FY06-07 - Procures ADC Mk2 Mod 1 over the side Acoustic Countermeasures for surface ship use.													
FY09-13 - Procures CVLWT units for testing and evaluation of CVLWT multi-mission capability (ATT/CRAW). The initial operational testing is focused on the ATT mission evaluation.													

CLASSIFICATION:			UNCLASSIFIED															
EXHIBIT P-5 COST ANALYSIS							Weapon System					DATE February 2007						
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3							ID Code	P-1 LINE ITEM NOMENCLATURE SSTD SUBHEAD NO. H3TD										
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS															
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009						
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost			
	<u>EQUIPMENT</u>																	
TD010	<u>ADC MK 2 MOD 1</u> HARDWARE		0	720	5.0	3,600	1020	5.0	5,100	0	0.0	0	0	0.0	0			
	<u>ATT</u> HARDWARE		0	0	0.0	0	0	0.0	0	0	0.0	0	5	550.0	2,750			
TD020	<u>ADC MK 2 MOD 1</u> PRODUCTION ENGINEERING - IN HOUSE		0	0	0.0	99	0	0.0	270	0	0.0	0	0	0.0	0			
	<u>ATT</u> PRODUCTION ENGINEERING - IN HOUSE		0	0	0.0	0	0	0.0	0	0	0.0	13	0	0.0	3,028			
TD030	<u>ADC MK 2 MOD 1</u> ACCEPTANCE T&E		0	0	0.0	157	0	0.0	378	0	0.0	0	0	0.0	0			
	<u>ATT</u> ACCEPTANCE T&E		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	344			
TD830	<u>ADC MK 2 MOD 1</u> PRODUCTION ENGINEERING - OUT HOUSE		0	0	0.0	84	0	0.0	84	0	0.0	0	0	0.0	0			
	<u>ATT</u> PRODUCTION ENGINEERING - OUT HOUSE		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	80			
TD010	<u>ATT</u> HARDWARE		0	0	0.0	0	0	0.0	0	0	0.0	0	2	550.0	1,100			

CLASSIFICATION:			UNCLASSIFIED														
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)						Weapon System						DATE February 2007					
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3						ID Code	P-1 LINE ITEM NOMENCLATURE SSTD SUBHEAD NO. H3TD										
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS														
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
TD020	ATT PRODUCTION ENGINEERING - IN HOUSE		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	907		
TD030	ATT ACCEPTANCE T&E		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	214		
TD830	ATT PRODUCTION ENGINEERING - OUT HOUSE		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	80		
	TOTAL EQUIPMENT		0			3,940			5,832			13			8,503		
TOTAL			0			3,940			5,832			13			8,503		

CLASSIFICATION:		UNCLASSIFIED								
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2007	
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3					P-1 LINE ITEM NOMENCLATURE SSTD BLIN: 3113				SUBHEAD H3TD	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2006										
TD010 ADC MK 2 MOD 1 HARDWARE	720	5.0	NAVSEA		OPTION/FFP	ULTRA, BRAINTREE, MA	MAY-06	MAY-07	YES	
FY 2007										
TD010 ADC MK 2 MOD 1 HARDWARE	1020	5.0	NAVSEA		OPTION/FFP	ULTRA, BRAINTREE, MA	FEB-07	FEB-08	YES	
FY 2009										
TD010 ATT HARDWARE	5	550.0	NAVSEA	JAN-08	C/FFP	TBD	JAN-09	JAN-10		
HARDWARE	2	550.0	NAVSEA	JAN-08	C/FFP	TBD	JAN-09	JAN-10		

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3						P-1 LINE ITEM NOMENCLATURE ASW TARGETS SUBHEAD NO. H3TG BLIN: 3141							
Program Element for Code B Items 0204271N / 0204228N						Other Related Program Elements							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity	3207	A		1005	1003	1000	1000	1000	1000	1000	1000	CONT	11215
COST (In Millions)	76.5			24.2	24.9	10.2	10.0	10.6	11.4	11.5	11.6	CONT	190.9
SPARES COST (In Millions)	4.3			0.0	0.5	0.0	0.4	0.4	0.0	0.0	0.0	CONT	5.6
PROGRAM DESCRIPTION/JUSTIFICATION: *Prior year includes MK 39 Mod 1. MK 39 Mod 2 quantity total is 11,153 (prior year = 3,153; prior year breakdown is FY02 = 450, FY03 = 501, FY04 = 501, FY05 = 1,701)													
ITEM DESCRIPTION/JUSTIFICATION: This line item includes multiple distinct systems: (a) MK 39 Mod 2 (Cost Codes TG002, TG832, TG842, TG862 and TG900) and (b) MK30 Mod 2 (Cost Codes TG005, TG015, TG835, TG865, TG885, TG900 and TG905), and (c) MK30 Service Life Extension Program (SLEP) (TG007). The MK 39 Mod 2 Expendable Mobile ASW Training Target (EMATT) is a small self-propelled underwater vehicle launchable from fixed wing and rotary wing ASW aircraft and ASW surface ships for the purpose of providing basic, open ocean sonar training and torpedo placement exercises. Its operation consists of a dynamic run trajectory that is actively controlled in depth and course with pre-programmable run maneuvers and is capable of generating a magnetic field (anomaly) detectable by all current Navy Magnetic Anomaly Detectors (MAD). The MK 30 Mod 2 is the new generation fleet ASW training target for training the Navy surface ship, submarines and aircraft that will be capable of simulating submarine threats anticipated in the twenty-first century littoral warfare environment. The MK 30 Mod 2 is a highly reliable and maintainable unmanned undersea vehicle simulating the dynamics, acoustics and magnetic signature of submarines and act as a target for ASW sensors and torpedoes to detect, classify, track and pursue in a realistic training environment. The initial MK 30 Mod 2 production contract was awarded in FY05 for 3 units to Lockheed Martin Sippican/Granite State Manufacturing Submarine Antenna Joint Venture, L.L.C. (LM Sippican/GSM Joint Venture). The FY06 option on this contract was awarded for 5 units.													

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE February 2007
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3	P-1 LINE ITEM NOMENCLATURE ASW TARGETS SUBHEAD NO. H3TG BLIN: 3141	
<p>The MK30 Mod 1 ASW Target has been in-service since 1974. Since procurement of the MK30 Mod 2 program completes in FY07, it is now necessary for the MK30 Mod 1 to remain in service. The MK30 SLEP will extend the useful service life of the MK30 program.</p> <p>TG002 MK39 MOD 2 - EMATT Funding under this cost code provides for the procurement of MK39 Mod 2 EMATT vehicles.</p> <p>TG005 MK30 MOD 2 Funding under this cost code provides for the procurement of MK30 Mod 2 EMATT vehicles.</p> <p>TG015 MK30 SUPPORT EQUIPMENT This funding provides for operational equipment in support of ASW Targets production (including Battery Charging Systems (BCS)) at Naval Undersea Warfare Centers (NUWC) Keyport (KPT) and Newport (NPT) and Operational Sites (O-Sites).</p> <p>TG832 EMATT PRODUCTION ENGINEERING (IN-HOUSE) Funding under this cost code provides for production engineering tasks performed by NUWC NPT and KPT including EMATT program management support, systems engineering, and production engineering.</p> <p>TG835 MK30 PRODUCTION ENGINEERING (IN-HOUSE) Funding under this cost code provides for production engineering tasks performed by NUWC NPT and KPT including MK30 hardware engineering, systems engineering, and program management support.</p> <p>TG842 EMATT QUALITY ASSURANCE Funding under this cost code provides for quality assurance efforts in support of the EMATT program.</p> <p>TG862 EMATT ACCEPTANCE T&E Funding under this cost code provides for production acceptance of contractor hardware for the EMATT program.</p> <p>TG865 MK30 ACCEPTANCE T&E Funding under this cost code provides for production acceptance of contractor hardware for the MK30 Mod 2 program.</p> <p>TG885 MK30 SITE INSTALLATION AND CHECKOUT</p>		

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE February 2007
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3	P-1 LINE ITEM NOMENCLATURE ASW TARGETS SUBHEAD NO. H3TG BLIN: 3141	
<p>Funding under this cost code provides for tasks associated with establishing and certifying O-Sites as fully operational to conduct MK30 Mod 2 targets training.</p> <p>TG900 CONSULTING SERVICES Funding under this cost code provides for contractor support services to the program office.</p> <p>TG905 PRODUCTION ENGINEERING (CONTRACTOR) Funding under this cost code provides for production engineering tasks performed by hardware contractor.</p> <p>TG007 MK30 SLEP Funding under this cost code provides Service Life Extension of the MK30 Program.</p>		

CLASSIFICATION:			UNCLASSIFIED												
EXHIBIT P-5 COST ANALYSIS							Weapon System					DATE			
APPROPRIATION/BUDGET ACTIVITY							ID Code		P-1 LINE ITEM NOMENCLATURE						
WEAPONS PROCUREMENT, NAVY/BA 3									ASW TARGETS						
									SUBHEAD NO. H3TG						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT Sponsor: N4 - LOGISTICS														
TG002	MK39 MOD 1/2 - EMATT	A	28,778	1000	3.1	3,097	1000	3.1	3,080	1000	3.2	3,229	1000	6.0	6,000
TG005	MK30 MOD 2	A	17,632	5	3,356.4	16,782	3	3,666.3	10,999	0	0.0	0	0	0.0	0
TG007	MK30 SLEP		0	0	0.0	0	0	0.0	0	0	0.0	5,015	0	0.0	2,041
TG015	MK30 MOD 2 - SUPPORT EQUIPMENT	A	1,242	0	0.0	102	0	0.0	1,871	0	0.0	0	0	0.0	0
TG832	MK39 MOD 1/2 EMATT - PROD ENG (IN-HOUSE)	A	7,209	0	0.0	853	0	0.0	1,263	0	0.0	1,331	0	0.0	1,340
TG835	MK30 MOD 2 - PROD ENG (IN-HOUSE)	A	7,619	0	0.0	2,095	0	0.0	5,278	0	0.0	0	0	0.0	0
TG842	MK39 MOD 1/2 EMATT - QUALITY ASSURANCE	A	357	0	0.0	43	0	0.0	104	0	0.0	106	0	0.0	108
TG862	MK39 MOD 1/2 EMATT - ACCEPTANCE T & E	A	613	0	0.0	0	0	0.0	220	0	0.0	216	0	0.0	233
TG865	MK30 MOD - ACCEPTANCE T & E	A	0	0	0.0	1,015	0	0.0	547	0	0.0	0	0	0.0	0
TG885	MK30 MOD 2 - SITE INSTALLATION & CHECKOUT	A	654	0	0.0	0	0	0.0	104	0	0.0	0	0	0.0	0
TG900	MK39 MOD 1/2 EMATT - CONSULTING SERVICES	A	1,358	0	0.0	120	0	0.0	121	0	0.0	261	0	0.0	269
TG900	MK30 MOD 2 - CONSULTING SERVICES	A	740	0	0.0	120	0	0.0	131	0	0.0	0	0	0.0	0
TG905	MK30 MOD 2 - PROD ENG (CONTRACTOR)	A	10,312	0	0.0	0	0	0.0	1,216	0	0.0	0	0	0.0	0
	N4 Subtotal		76,514			24,227			24,934			10,158			9,991

CLASSIFICATION:			UNCLASSIFIED												
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)						Weapon System						DATE February 2007			
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3						ID Code	P-1 LINE ITEM NOMENCLATURE ASW TARGETS SUBHEAD NO. H3TG								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	TOTAL EQUIPMENT														
			76,514			24,227			24,934			10,158			9,991
TOTAL			76,514			24,227			24,934			10,158			9,991
Comment:															
MK 39 Mod 1/2 - EMATT:															
Prior year includes MK39 Mod 1.															
MK 30 Mod 2:															
Procurement of the MK30 Mod 2 program completes in FY07.															
Production Engineering (Contractor) in FY07 supports production and delivery of FY06 and FY07 units through FY09.															
MK30 SLEP in FY08 and FY09 supports the service life extension for the MK30 program.															

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3					P-1 LINE ITEM NOMENCLATURE ASW TARGETS BLIN: 3141				SUBHEAD H3TG		
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE	
FY 2006											
TG002 MK39 MOD 1/2 - EMATT	1000	3.1	NAVSEA	N/A	C/FFP-OPTION	LM SIPPICAN, MARION MA	MAY-06	DEC-07	YES	N/A	
TG005 MK30 MOD 2	5	3,356.4	NAVSEA	N/A	C/FFP-OPTION	SIPPICAN/GSM,MARION MA	APR-06	NOV-07	YES	N/A	
FY 2007											
TG002 MK39 MOD 1/2 - EMATT	1000	3.1	NAVSEA	N/A	C/FFP-OPTION	LM SIPPICAN, MARION MA	FEB-07	AUG-08	YES	N/A	
TG005 MK30 MOD 2	3	3,666.3	NAVSEA	N/A	C/FFP-OPTION	SIPPICAN/GSM,MARION MA	DEC-06	JUL-08	YES	N/A	
FY 2008											
TG002 MK39 MOD 1/2 - EMATT	1000	3.2	NAVSEA	N/A	C/FFP-OPTION	LM SIPPICAN, MARION MA	DEC-07	JUN-09	YES	N/A	
FY 2009											
TG002 MK39 MOD 1/2 - EMATT	1000	6.0	NAVSEA	N/A	C/FFP-BASE YEAR	TBD	DEC-08	JUN-10	YES	TBD	
Remarks: MK39 Mod 2-EMATT: Delivery dates based on negotiated contract. EMATT production lead time varies year to year.											

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3						P-1 LINE ITEM NOMENCLATURE MK-46 TORPEDO MODS SUBHEAD NO. H3F5 BLIN: 3215							
Program Element for Code B Items 0204228N						Other Related Program Elements 0604610N LIGHTWEIGHT TORPEDO DEVELOPMENT							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity	191	A		103	133	133	280	297	252	271	257	CONT	1,917
COST (In Millions)	185.9			68.7	85.6	83.9	153.9	167.7	164.9	178.5	175.5	CONT	1,264.6
SPARES COST (In Millions)	7.1			2.4	1.2	0.1	2.3	0.3	0.2	0.2	0.1	CONT	11.8
PROGRAM DESCRIPTION/JUSTIFICATION:													
<p>The MK54 Mod 0 Lightweight Torpedo maximizes the use of NDI Technologies Inc.'s expertise from existing torpedo programs with state of the art COTS processors and is a modular upgrade to Lightweight Torpedo Inventory. It is comprised of the MK50 sonar, MK46 warhead and propulsion system and new COTS processors which will use tactical software derived from MK50 and MK48 ADCAP. The MK54 provides improved performance against diesel electric submarine threats operating in shallow water. This budget includes the procurement of upgrade kits for VLA integration and compatibility.</p> <p>The total Lightweight torpedo inventory is composed of a mix of MK46 5A(S), MK46 5A(SW), MK50, and MK54.</p> <p>During FY08, procurement costs include costs of new acoustic arrays as current supplies of acoustic arrays and transmitters will be exhausted.</p> <p>FY07: \$15M reduction to stabilize acquisition profile</p> <p>FY07: \$4.4M add for Torpedo Technology Insertion</p>													
F5003 - SUPPORT AND TEST EQUIPMENT													
Funding under this cost code provides support and test equipment at Naval Undersea Warfare Centers (NUWC) Keyport and Newport used to conduct production acceptance testing.													

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE February 2007
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3	P-1 LINE ITEM NOMENCLATURE MK-46 TORPEDO MODS SUBHEAD NO. H3F5 BLIN: 3215	
<p>F5104 - HARDWARE Funding under this cost code provides for the procurement of MK54 hardware kits from the contractor. Additionally, hardware installation cost, contractor engineering change proposals (ECPs), and non-recurring engineering tasks are performed under this cost code.</p> <p>F5103 - FIELD SUPPORT OPERATIONS Funding previously allocated for field support tasks.</p> <p>F5106 - MK54 PLATFORM INTEGRATION Funding under this cost code provided for production integration of the MK54 torpedo with Vertical Launch ASROC (VLA) kit.</p> <p>F5107 - MK54/VLA KITS Funding under this cost code provides for procurement of VLA kits, hardware, installation costs, and the associated engineering tasks.</p> <p>F5108 - MK54 USV LAUNCHERS Funding under this cost code provides for the procurement of launchers to be mounted aboard Unmanned Surface Vehicles (USV) for the purpose of firing MK54 Lightweight Torpedoes.</p> <p>F5109 - HAAWC Funding under this cost code provides for the MK54 High Altitude ASW Weapon Capability (HAAWC) effort.</p> <p>F5830 - PRODUCTION ENGINEERING IN-HOUSE Funding under this cost code provides for production engineering tasks performed by NUWC NPT and KPT including the following: activity program support, production engineering, software engineering, documentation, integrated logistics support, safety and environmental engineering, information systems, and quality assurance.</p> <p>F5860 - ACCEPTANCE TEST & ENGINEERING Funding under this cost code provides for production acceptance of contractor hardware.</p> <p>F5900 - PRODUCTION ENGINEERING CONTRACTOR Funding under this cost code provides for contractor support to the program office.</p>		

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE February 2007
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3	P-1 LINE ITEM NOMENCLATURE MK-46 TORPEDO MODS SUBHEAD NO. H3F5 BLIN: 3215	
F5105 - FLEET EXERCISE SYSTEMS Funding under this cost code provided for production engineering of Fleet Exercise Sections (FES) utilized during in-water acceptance testing of hardware.		

CLASSIFICATION:			UNCLASSIFIED												
EXHIBIT P-5 COST ANALYSIS							Weapon System					DATE	February 2007		
APPROPRIATION/BUDGET ACTIVITY							ID Code	P-1 LINE ITEM NOMENCLATURE							
WEAPONS PROCUREMENT, NAVY/BA 3								MK-46 TORPEDO MODS							
								SUBHEAD NO. H3F5							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT														
	Sponsor: N86 - SURFACE WARFARE														
	N86 Subtotal		0			0			0			0			0
	Sponsor: N87 - SUBMARINE WARFARE														
F5003	SUPPORT EQUIPMENT	A	5,720	0	0.0	679	0	0.0	871	0	0.0	891	0	0.0	911
F5103	FIELD SUPPORT OPERATIONS	A	1,561	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0
F5104	<u>HARWARE</u>														
	MK 54 MOD 0 KITS	A	133,231	103	517.5	53,306	133	494.9	65,817	133	515.5	68,556	280	452.6	126,723
F5105	FLEET EXERCISE SYSTEMS	A	1,099	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0
F5106	MK 54 PLATFORM INTEGRATION	A	705	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0
F5107	MK 54/VLA KITS	A	527	40	164.3	6,570	40	65.3	2,611	40	66.3	2,652	40	57.4	2,295
F5109	HAAWC	A	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	4,500
F5830	PRODUCTION ENGINEERING IN-HOUSE	A	18,661	0	0.0	4,288	0	0.0	6,163	0	0.0	6,617	0	0.0	7,163
F5860	ACCEPT TEST & EVALUATION	A	21,444	0	0.0	3,200	0	0.0	9,470	0	0.0	4,544	0	0.0	11,606
F5900	PRODUCTION ENGINEERING CONTRACTOR	A	2,967	0	0.0	614	0	0.0	628	0	0.0	642	0	0.0	657
	N87 Subtotal		185,915			68,657			85,560			83,902			153,855

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3					P-1 LINE ITEM NOMENCLATURE MK-46 TORPEDO MODS BLIN: 3215				SUBHEAD H3F5		
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE	
FY 2006											
F5104 HARWARE MK 54 MOD 0 KITS	103	517.5	NAVSEA	N/A	SS/FP (OPTION)	RAYTHEON, KEYPORT, WA	JUL-06	MAY-08	YES		
F5107 MK 54/VLA KITS	40	164.3	NOLSC	N/A	BOA	LOCKHEED MARTIN	MAY-06	FEB-07	YES		
FY 2007											
F5104 HARWARE MK 54 MOD 0 KITS	133	494.9	NAVSEA	N/A	SS/FP (OPTION)	RAYTHEON, KEYPORT, WA	MAY-07	DEC-08	YES		
F5107 MK 54/VLA KITS	40	65.3	NAVSEA	N/A	TBD	LOCKHEED MARTIN	DEC-06	SEP-07	YES		
FY 2008											
F5104 HARWARE MK 54 MOD 0 KITS	133	515.5	NAVSEA	N/A	SS/FP (OPTION)	RAYTHEON, KEYPORT, WA	DEC-07	JAN-10	YES		
F5107 MK 54/VLA KITS	40	66.3	NAVSEA	N/A	TBD	LOCKHEED MARTIN	DEC-07	SEP-09	YES		
FY 2009											
F5104 HARWARE MK 54 MOD 0 KITS	280	452.6	NAVSEA	N/A	TBD	TBD	DEC-08	JAN-11	YES		
F5107 MK 54/VLA KITS	40	57.4	NAVSEA	N/A	TBD	LOCKHEED MARTIN	DEC-08	DEC-09	YES		
Remarks: Unit cost reflected in this budget includes install cost from prior year buys. Kit Installations occur as contractor hardware is delivered from prior year procurements. Therefore, the quantity installed in any given year is different from the procurement quantity.											

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System					DATE February 2007	
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3					P-1 LINE ITEM NOMENCLATURE MK-46 TORPEDO MODS BLIN: 3215					SUBHEAD H3F5	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE	
Hardware budget includes hardware, NRE, ECPs and install costs. In FY07 and prior years production include MK50 acoustic arrays that are Government Furnished Equipment (GFE). Starting in FY08 new acoustic arrays and transmitters are being used.											

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED F5104 HARWARE MK 54 MOD 0 KITS	TYPE MODIFICATION:	MODIFICATION TITLE: MK-46 TORPEDO MODS
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DESCRIPTION/JUSTIFICATION:

The MK54 Mod 0 Lightweight Torpedo (LWT) is a modular upgrade, designed to take advantage of the current USN investments in hardware and technology by utilizing components from the MK46, MK50, and MK48 ADCAP Torpedoes, as well as commercial-off-the-shelf (COTS) processor components with open systems architecture. In addition, it will integrate software improvements gained from the MK50 Shallow Water Performance Program.

The Install Costs for this modification are included in the Modification Kits Cost line and have been broken out on the P3-A Continued page.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: DEVELOPMENT TESTING BEGAN 4TH QTR FY99, OPEVAL COMPLETE 4TH QTR FY04

COST	Prior Years		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<i>FINANCIAL PLAN(IN MILLIONS)</i>																						
<i>RDT&E</i>		83.2		27.7		40.4		28.6		41.0		34.8		20.8		21.9		22.4				320.8
PROCUREMENT																						
MODIFICATION KITS	191	133.2	103	53.3	133	65.8	133	68.6	280	126.7	297	134.7	252	115.9	271	127.0	257	125.6			1,917	950.6
MODIFICATION KITS - UNIT COST		0.7		0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5				
MODIFICATION NONRECURRING																						
EQUIPMENT																						
EQUIPMENT NONRECURRING		3.4																				3.4
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT		5.7		0.7		0.9		0.9		0.9		0.9		0.9		1.0		1.0				12.9
OTHER PE/ACCEPTANCE T&E		40.1		7.5		15.6		11.1		18.8		20.1		18.1		19.8		19.2				170.3
OTHER NONRECURRING		0.5		6.6		2.6		2.7		2.3		2.3		2.4		2.4		2.5				24.3
OTHER HAAWC & USV										4.5		9.0		27.0		27.5		26.5				94.5
INTERIM CONTRACTOR SUPPORT		3.0		0.6		0.6		0.6		0.7		0.7		0.7		0.7		0.7				8.3
INSTALL COST																						
TOTAL PROCUREMENT		185.9		68.7		85.5		83.9		153.9		167.7		164.8		178.4		175.2				1,264.3

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED HARWARE MK 54 MOD 0 KITS	MODIFICATION TITLE: MK-46 TORPEDO MODS
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SOLE SOURCE CONTRACT- RAYTHEON

ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 18 Months

CONTRACT DATES:		FY 2006:	JUL-06	FY 2007:	MAY-07	FY 2008:	DEC-07	FY 2009:	DEC-08
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DELIVERY DATES:		FY 2006:	MAY-08	FY 2007:	DEC-08	FY 2008:	JUN-10	FY 2009:	JUN-10
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(\$ in Millions)

COST	Prior Years		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS	191	3.4																			191	3.4	
FY 2006 EQUIPMENT					19	0.3	84	1.4														103	1.7
FY 2007 EQUIPMENT							37	0.6	96	1.6												133	2.2
FY 2008 EQUIPMENT									53	0.9	80	1.4										133	2.3
FY 2009 EQUIPMENT											115	2.0	165	2.9								280	4.9
FY 2010 EQUIPMENT													122	2.1	175	3.1						297	5.3
FY 2011 EQUIPMENT															105	1.9	147	2.7				252	4.6
FY 2012 EQUIPMENT																	111	2.0	160	3.0	271	5.0	
FY 2013 EQUIPMENT																			257	4.8	257	4.8	
TO COMPLETE																					CONT		

INSTALLATION SCHEDULE

	FY 2005	FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 2013				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	36	13	20	18	21	24	24	30	24	24	32	28	37	37	38	40	34	35	37	54	69	69	72	72	74	74	74	74	58	65	64	65	64	417	1,917
Out	24	6	6	13	20	18	21	24	24	30	24	24	32	28	37	37	38	40	34	35	37	54	69	69	72	72	74	74	74	58	65	64	64	546	1,917

Remarks:
 HAAWC procurement begins in FY09. USV Launcher procurement begins in FY11.

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3						P-1 LINE ITEM NOMENCLATURE MK-48 TORPEDO ADCAP MODS SUBHEAD NO. H3D1 BLIN: 3225							
Program Element for Code B Items						Other Related Program Elements							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity	30	A		73	103	84	84	84	84	84	84	553	1263
COST (In Millions)	570.3			63.6	64.6	63.8	62.0	63.8	65.3	66.6	68.0	450.9	1,538.9
SPARES COST (In Millions)	4.6			2.3	2.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	11.5
PROGRAM DESCRIPTION/JUSTIFICATION:													
This line item procures upgrade kits for the MK48 Mod 5 ADCAP Heavyweight Torpedo including the Mod 6 (MODs) and the Mod 7 CBASS (Common Broadband Advanced Sonar System)													
The MK48 ADCAP MODS kit incorporates a new Guidance and Control (G&C) modification and a Torpedo Propulsion Upgrade (TPU) modification to the baseline ADCAP system. The G&C Modification provides a common G&C with the Mod 7 CBASS replacing obsolete electronic components with Commercial Off The Shelf Processors and increased processing capacity. The increased capacity is required for future advanced signal processing techniques that are needed for performance upgrades in shallow water target detection/classification.													
The Torpedo Propulsion Upgrade (TPU) addresses the Navy's operational requirement for a quieter ADCAP torpedo. These modifications allow the MK48 ADCAP torpedo to operate effectively in adverse environments, thus enabling the MK48 ADCAP torpedo to counter enemy submarine threats into the 21st century.													
The Common Broadband Advanced Sonar System (CBASS) torpedo consists of three major components - Afterbody Torpedo Propulsion Upgrades (TPU), Guidance and Control (G&C), and Broadband Sonar Analog Receiver (BSAR). Both the Afterbody TPU and G&C are continuous from the MODs (MOD 6) production in FY2005. The BSAR is a CBASS specific item that will be procured beginning in FY2006 and consists of a preamplifier, receiver, and interfacing hardware that provides the capability to transmit and receive over a wide frequency band and that takes advantage of broadband signal processing techniques. This provides for improvements in advanced threat countermeasures capabilities. Afterbody TPU kits (required for Forebody/Afterbody compatibility with the ADCAP MODs G&C kits) will be procured in FY2004 through FY2007. In FY2008 through the remainder of the Mod 7 CBASS program, G&C kits will be procured in addition to the CBASS kits for installation in Mod 6 MODs Torpedoes which already contain the TPU upgrade.													
In the Joint Conference session Congress added \$3,300K in FY07 for MK48 torpedo critical components.													
D1001 - HARDWARE													
Funding under this cost code provides for the procurement of MK48 ADCAP Mods and CBASS hardware from the contractor. Additionally, hardware installation cost, contractor engineering change proposals (ECPs), and non-recurring engineering tasks are performed under this cost code. ADCAP Mods last procurement was FY05 (quantity of 79), so the prior year quantity for MK48 ADCAP Mods hardware totals 1,070. In FY06 through FY13 only CBASS hardware is being procured.													

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE February 2007
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3	P-1 LINE ITEM NOMENCLATURE MK-48 TORPEDO ADCAP MODS SUBHEAD NO. H3D1 BLIN: 3225	
<p>D1003 - SUPPORT AND ANCILLARY EQUIPMENT Funding under this cost code provides support and test equipment at Naval Undersea Warfare Centers (NUWC) Keyport and Newport used to conduct production acceptance testing.</p> <p>D1830 - PRODUCTION ENGINEERING (CONTRACTOR AND IN-HOUSE) Funding under this cost code provides for production engineering tasks performed by NUWC NPT and KPT including the following: activity program support, production engineering, software engineering, documentation, integrated logistics support, safety and environmental engineering, information systems, and quality assurance. Funding is also provided for contractor support to the program office.</p> <p>D1860 - ACCEPTANCE TEST AND ENGINEERING Funding under this cost code provides for production acceptance of contractor hardware.</p> <p>D1CA1 - CONGRESSIONAL ADD - OBSOLESCENCE Funding under this cost code provides for production engineering tasks associated with MK48 hardware obsolescence.</p> <p>D1CA2 - CONGRESSIONAL ADD - TECH INSERTION Funding under this cost code provides for production engineering tasks associated with a technology refresh for the MK48 sonar array and signal processor cards.</p>		

CLASSIFICATION:			UNCLASSIFIED														
EXHIBIT P-5 COST ANALYSIS							Weapon System						DATE February 2007				
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3							ID Code	P-1 LINE ITEM NOMENCLATURE MK-48 TORPEDO ADCAP MODS SUBHEAD NO. H3D1									
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS														
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
	EQUIPMENT Sponsor: N87 - SUBMARINE WARFARE																
D1001	ADCAP MODS KITS	A	222,867	0	0.0	3,564	0	0.0	2,557	0	0.0	0	0	0.0	0		
D1001	CBASS KITS	A	16,426	73	437.0	31,901	103	347.6	35,805	84	482.0	40,485	84	497.5	41,794		
D1003	SUPPORT AND ANCILLARY EQUIPMENT		31,461	0	0.0	1,725	0	0.0	1,751	0	0.0	1,781	0	0.0	1,822		
D1830	PRODUCTION ENGINEERING (CONTRACTOR AND IN HOUSE)		166,996	0	0.0	10,819	0	0.0	11,355	0	0.0	11,418	0	0.0	11,693		
D1860	ACCEPTANCE T&E (CONTRACTOR AND IN HOUSE)		132,568	0	0.0	9,425	0	0.0	9,800	0	0.0	10,070	0	0.0	6,712		
D1CA1	CONGRESSIONAL ADD- OBSOLESCENCE		0	0	0.0	2,700	0	0.0	3,300	0	0.0	0	0	0.0	0		
D1CA2	CONGRESSIONAL ADD- TECH INSERTION		0	0	0.0	3,500	0	0.0	0	0	0.0	0	0	0.0	0		
	N87 Subtotal		570,318			63,634			64,568			63,754			62,021		
	TOTAL EQUIPMENT		570,318			63,634			64,568			63,754			62,021		
TOTAL			570,318			63,634			64,568			63,754			62,021		
Comment: D1CA1- FY06 (\$2,700K) and FY07 (\$3,300K) Congressional Add for obsolescence engineering issues. D1CA2- \$3,500K Congressional Add for tech insertion.																	

CLASSIFICATION:		UNCLASSIFIED								
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2007	
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3					P-1 LINE ITEM NOMENCLATURE MK-48 TORPEDO ADCAP MODS BLIN: 3225				SUBHEAD H3D1	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE
D1001 FY 2006 CBASS KITS	73	437.0	NAVSEA	N/A	SS/FP (OPTION)	RAYTHEON SYSTEMS CORP	JUL-06	MAR-08	YES	
D1001 FY 2007 CBASS KITS	103	347.6	NAVSEA	N/A	SS/FP (OPTION)	RAYTHEON SYSTEMS CORP	MAY-07	JAN-09	YES	
D1001 FY 2008 CBASS KITS	84	482.0	NAVSEA	N/A	SS/FP (OPTION)	RAYTHEON SYSTEMS CORP	DEC-07	AUG-09	YES	
D1001 FY 2009 CBASS KITS	84	497.5	NAVSEA	N/A	TBD	TBD	DEC-08	AUG-10	YES	
Remarks: Unit cost reflected in this budget includes install cost from prior year buys & ECP's for the current procurement year. Kit Installation occur as contractor hardware is delivered from prior year procurements. Therefore, the quantity installed in any given year is diferent from the procurement quantity.										

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED D1001 ADCAP MODS KITS	TYPE MODIFICATION:	MODIFICATION TITLE: MK-48 TORPEDO ADCAP MODS
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DESCRIPTION/JUSTIFICATION:

The Modification Kits for the MK48 ADCAP/CBASS Torpedo allows the MK48 ADCAP/CBASS torpedo to operate in adverse environments such as shallow water, thus enabling the MK48 ADCAP/CBASS torpedo to counter enemy submarine threats into the 21st century.
 The Install Costs for this modification are included in the Modification Kits Cost line and have been broken out on the P3-A Continued page.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MS II APPROVED IN JAN 1993; MS III APPROVED IN APR. 1996

COST	Prior Years		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	<i>FINANCIAL PLAN(IN MILLIONS)</i>																						
<i>RDT&E</i>																							
<i>PROCUREMENT</i>																							
MODIFICATION KITS	,070	222.9		3.6		2.6																,070	229.1
MODIFICATION KITS - UNIT COST		0.2																					
MODIFICATION NONRECURRING																							
EQUIPMENT																							
EQUIPMENT NONRECURRING																							
ENGINEERING CHANGE ORDERS																							
DATA																							
TRAINING EQUIPMENT																							
SUPPORT EQUIPMENT																							
OTHER		31.4																					31.4
OTHER		269.4																					269.4
OTHER																							
INTERIM CONTRACTOR SUPPORT		30.2																					30.2
INSTALL COST																							
<i>TOTAL PROCUREMENT</i>		553.9		3.6		2.6																	560.1

CLASSIFICATION: UNCLASSIFIED **February 2007**

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED ADCAP MODS KITS	MODIFICATION TITLE: MK-48 TORPEDO ADCAP MODS
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: Months PRODUCTION LEADTIME: Months

CONTRACT DATES:		FY 2006:		FY 2007:		FY 2008:		FY 2009:	
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DELIVERY DATES:		FY 2006:		FY 2007:		FY 2008:		FY 2009:	
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(\$ in Millions)

COST	Prior Years		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS	922	34.0	87	3.5	61	2.6															1070	40.1
FY 2006 EQUIPMENT																						
FY 2007 EQUIPMENT																						
FY 2008 EQUIPMENT																						
FY 2009 EQUIPMENT																						
FY 2010 EQUIPMENT																						
FY 2011 EQUIPMENT																						
FY 2012 EQUIPMENT																						
FY 2013 EQUIPMENT																						
TO COMPLETE																						

INSTALLATION SCHEDULE

	FY 2005	FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 2013				TC	TOTAL				
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
In	922	22	22	22	21	16	15	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,070
Out	888	17	17	22	22	21	16	15	15	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,070

Remarks:

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED D1001 CBASS KITS	TYPE MODIFICATION:	MODIFICATION TITLE: MK-48 TORPEDO ADCAP MODS
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DESCRIPTION/JUSTIFICATION:

The Modification Kits for the MK48 ADCAP/CBASS Torpedo allows the MK48 ADCAP/CBASS torpedo to operate in adverse environments such as shallow water, thus enabling the MK48 ADCAP/CBASS torpedo to counter enemy submarine threats into the 21st century.
 The Install Costs for this modification are included in the Modification Kits Cost line and have been broken out on the P3-A Continued page.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MS II APPROVED IN JAN 1993; MS III APPROVED IN APR. 1996

COST	Prior Years		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	<i>FINANCIAL PLAN(IN MILLIONS)</i>																					
<u>RDT&E</u>		79.7		21.6		24.9		17.9		18.7		23.0		28.2		28.7		29.2		CONT		271.9
<u>PROCUREMENT</u>																						
MODIFICATION KITS	30	16.4	73	31.9	103	35.8	84	40.5	84	41.8	84	43.2	84	44.3	84	45.2	84	46.2	553	304.1	263	649.4
MODIFICATION KITS - UNIT COST		0.5		0.4		0.3		0.5		0.5		0.5		0.5		0.5		0.6		0.5		
MODIFICATION NONRECURRING																						
EQUIPMENT																						
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT				1.7		1.8		1.8		1.8		1.9		1.9		2.0		2.0		7.1		22.0
OTHER				17.6		20.9		18.7		15.5		15.7		15.8		16.3		16.5		119.2		256.2
OTHER- CONGRESSIONAL ADDS				6.2		3.3																9.5
OTHER																						
INTERIM CONTRACTOR SUPPORT				2.7		2.8		2.8		2.9		3.0		3.0		3.1		3.2		20.5		44.0
INSTALL COST																				31.9		31.9
<u>TOTAL PROCUREMENT</u>		16.4		60.1		64.6		63.8		62.0		63.8		65.0		66.6		67.9		482.8		1,013.0

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3						P-1 LINE ITEM NOMENCLATURE QUICKSTRIKE MINE SUBHEAD NO. 73QS BLIN: 3231 BLIN: 3231							
Program Element for Code B Items						Other Related Program Elements 0204304N							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity				0	0	0	0	0	0	0	0	0	0
COST (In Millions)	13.8			3.0	3.1	3.2	3.5	9.6	14.9	15.3	0.7	0.0	67.1
SPARES COST (In Millions)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PROGRAM DESCRIPTION/JUSTIFICATION: The QUICKSTRIKE (QS) family of air delivered mines has 3 variants based on size - the MK 62, MK 63, and MK 65. The MK 62 and MK 63 (500 lb. and 1000 lb.) QS are created by adding mine hardware to the MK 82 and MK 83 general purpose bomb (respectively) to form a mine. The MK 65 (2000 lb.) QS consists entirely of hardware designed for use as a mine. The Mod 0, 1, and 3 variants utilize various target detection devices (TDD). The QS Mod 3 utilizes a newly developed TDD, MK 71, a software-programmable device capable of being programmed to optimize detection of new threats. For the QUICKSTRIKE MK 62 and 63, the QS Mod 3 Kit consists of the Target Detection Devices (including the service and dummy MK 71), Safe/Arming (S&A) devices (including the service MK 75, practice MK 81, and dummy MK 84), battery (MK 176), TDD Adapter Ring MK 163, and miscellaneous hardware. For the QUICKSTRIKE MK 65, the Mod 3 Kit consists of the Target Detection Devices (including the service and dummy MK 71), the existing Safe/Arming devices (including the service MK 45, and practice and dummy S&A devices), the existing batteries MK 131 or 132, TDD Adapter MK 157, and miscellaneous hardware. Additional support hardware for the QS MK 62/63/65 Mod 3 includes Test Set MK 650 and Programmer MK 11.													

CLASSIFICATION:			UNCLASSIFIED												
EXHIBIT P-5 COST ANALYSIS							Weapon System					DATE	February 2007		
APPROPRIATION/BUDGET ACTIVITY							ID Code	P-1 LINE ITEM NOMENCLATURE							
WEAPONS PROCUREMENT, NAVY/BA 3								QUICKSTRIKE MINE							
								SUBHEAD NO. 73QS BLIN: 3231							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u>EQUIPMENT</u>														
QS001	TDD MK 71	A	4,107	0	0.0	2,003	0	0.0	1,356	0	0.0	1,095	0	0.0	1,200
QS002	<u>QUICKSTRIKE MOD KITS (BATTERIES & SERV S/A MK 75</u>														
	MK 62/63 MOD KIT		1,824	0	0.0	0	0	0.0	918	0	0.0	1,496	0	0.0	1,581
	MK 65 MOD KIT		0	0	0.0	413	0	0.0	148	0	0.0	0	0	0.0	0
QS004	TRAINING S/A		0	0	0.0	0	0	0.0	50	0	0.0	0	0	0.0	0
QS005	<u>SUPPORT HARDWARE</u>														
	TDD MK 71		1,447	0	0.0	0	0	0.0	25	0	0.0	0	0	0.0	0
QS830	<u>PRODUCTION ENGINEERING</u>														
	TDD MK 71		2,074	0	0.0	299	0	0.0	384	0	0.0	425	0	0.0	521
QS840	<u>QUALITY ASSURANCE</u>														
	TDD MK 71		695	0	0.0	150	0	0.0	130	0	0.0	120	0	0.0	124
QS850	<u>SOFTWARE ENGINEERING</u>														
	TDD MK 71		2,679	0	0.0	53	0	0.0	50	0	0.0	60	0	0.0	62
QS860	<u>ACCEPTANCE T & E</u>														
	TDD MK 71		938	0	0.0	60	0	0.0	30	0	0.0	40	0	0.0	42
	TOTAL EQUIPMENT		13,764			2,978			3,091			3,236			3,530
TOTAL			13,764			2,978			3,091			3,236			3,530

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3						P-1 LINE ITEM NOMENCLATURE TORPEDO SUPPORT EQUIPMENT SUBHEAD NO. H3F8 BLIN: 3301							
Program Element for Code B Items						Other Related Program Elements							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0
COST (In Millions)	23.2			28.8	26.2	35.9	36.1	36.5	38.2	38.9	39.6	0.0	303.4
SPARES COST (In Millions)	0.5			0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	1.0
PROGRAM DESCRIPTION/JUSTIFICATION:													
The Torpedo Support Equipment account procures various 4T and associated torpedo components required to ready weapons for Surface Ships, Submarines, Fixed Wing, and Rotary Wing to achieve and maintain a readiness posture sufficient to provide ASW and ASUW readiness. The objective of this line is to provide the Fleet with ready exercise weapons for conducting training maneuvers which involve actually firing the torpedoes, and to maintain warshot inventories in an operational ready-for-issue (RFI) status in support of combat ready deployment by anti-submarine warfare forces. After a torpedo is fired during a training exercise it is recovered and all expendable components such as batteries, cables, igniters (as well as various accessories required for air-launched torpedoes), must be replaced. These items as well as components such as exercise heads, fuel tanks, and exhaust valves which may be used more than one time, but which are worn out or lost in service, are procured each fiscal year in quantities dependent upon the Fleet training requirements and tempo of operations. The torpedoes requiring support are the MK46 Mod 5A(SW), MK 48 Mod 4, 5, 6, and 7, and MK54.													
F8001- LIGHTWEIGHT SUPPORT EQUIPMENT AND F8100 - HEAVYWEIGHT EXERCISE AND EXPENDABLES AND COMPONENT REPLACEMENT													
Heavyweight Exercise and Expendables and Component Replacement procure 4T components to support Fleet Proficiency Firings. 4T Components includes the following: lead droppers, seawater batteries, pressure cylinders, Recoverable Exercise Torpedo (REXTORP) kits, sway brace pads, suspension bands, thermal batteries, boiler assemblies, stop squibs, shutdown valves, gas injection assemblies, tailnuts, air stabilizers, wire coils, flex hoses, Otto Fuel, igniters, propellant, umbilical cables, and containers.													
F8002 - LIGHTWEIGHT OTHER EQUIPMENT INVESTMENT AND F8101 - HEAVYWEIGHT OTHER EQUIPMENT INVESTMENT													
Heavyweight Other Equipment Investment procure and install Engineering Change Proposal/Ordnance Alteration (ECP/ORDALT) material required for Support and Test Equipment and to retrofit torpedoes including 4T components to the latest ready-for-issue (RFI) configuration. In addition to 4T components procurement and other equipment investment, this account provides for production support and test/evaluation for these components and procurement of product improvement hardware and related equipment.													
F8830 - LIGHTWEIGHT PRODUCTION ENGINEERING - IN HOUSE AND F8833 - HEAVYWEIGHT PRODUCTION ENGINEERING													
Provides for production support services at NUWC Division KPT/NPT including program planning, funds management, budgeting, data management, acquisition engineering, software management, ILS and GFE management, training equipment, and configuration management.													

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE February 2007
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3	P-1 LINE ITEM NOMENCLATURE TORPEDO SUPPORT EQUIPMENT SUBHEAD NO. H3F8 BLIN: 3301	
<p>F8840 - LIGHTWEIGHT QUALITY ASSURANCE AND F8843 - HEAVYWEIGHT QUALITY ASSURANCE Provides material costs associated with failure analysis and site investigations for Torpedo System component failures and product QA, and critical unique firing tests.</p> <p>F8860 - LIGHTWEIGHT ACCEPTANCE TEST AND EVALUATION AND F8863 - HEAVYWEIGHT ACCEPTANCE TEST AND EVALUATION Provides support for acceptance testing of 4T components; acceptance testing funds vary due to the dependencies in quantities.</p> <p>F8900 - LIGHTWEIGHT PRODUCTION ENGINEERING - CONTRACTOR AND F8893 - HEAVYWEIGHT PRODUCTION ENGINEERING (CONTRACTOR) Provides for production support services at Anteon, BearingPoint, and EDO, including program planning, funds management, budgeting, and data management.</p>		

CLASSIFICATION:			UNCLASSIFIED												
EXHIBIT P-5 COST ANALYSIS						Weapon System						DATE February 2007			
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3						ID Code	P-1 LINE ITEM NOMENCLATURE TORPEDO SUPPORT EQUIPMENT SUBHEAD NO. H3F8								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u>EQUIPMENT</u> <u>Sponsor: N86 - SURFACE WARFARE</u>														
F8001	<u>LIGHTWEIGHT SUPPORT EQUIPMENT</u>														
	MK 54 LANYARD START ASSEMBLY		0	0	0.0	0	200	1.3	262	200	1.4	278	200	1.5	294
	MK 792/0 UNIVERSAL AUR CONTAINER		0	0	0.0	0	0	0.0	0	0	0.0	0	36	3.8	137
	SAFETY STATIC LINE ASSEMBLY		50	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0
	UNIVERSAL REXTORP	A	797	34	31.4	1,069	32	32.0	1,025	36	32.0	1,152	31	32.0	992
	MK54 IGNITER	A	0	170	0.4	73	200	0.5	96	200	0.5	101	200	0.5	107
F8002	OTHER EQUIPMENT INVESTMENT	A	2,335	0	0.0	1,658	0	0.0	1,615	0	0.0	1,594	0	0.0	1,702
F8830	PRODUCTION ENGINEERING - IN HOUSE	A	1,188	0	0.0	1,313	0	0.0	1,182	0	0.0	1,267	0	0.0	1,324
F8840	QUALITY ASSURANCE	A	75	0	0.0	70	0	0.0	76	0	0.0	76	0	0.0	76
F8860	ACCEPTANCE T&E	A	469	0	0.0	489	0	0.0	466	0	0.0	476	0	0.0	486
F8900	PRODUCTION ENGINEERING - CONTRACTOR	A	180	0	0.0	190	0	0.0	194	0	0.0	198	0	0.0	202
	N86 Subtotal		5,094			4,862			4,916			5,142			5,320
	<u>Sponsor: N87 - SUBMARINE WARFARE</u>														

CLASSIFICATION:			UNCLASSIFIED												
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)						Weapon System						DATE February 2007			
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3						ID Code	P-1 LINE ITEM NOMENCLATURE TORPEDO SUPPORT EQUIPMENT SUBHEAD NO. H3F8								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
F8100	EXERCISE AND EXPENDABLES AND COMPONENT REPL														
	MK 62-1 A-CABLE INSERT		102	1000	0.1	104	1000	0.1	125	1000	0.1	131	1000	0.1	138
	MK 62-1 A-CABLE RECEPTACLE		866	237	1.2	284	217	1.1	231	550	1.1	597	425	1.1	471
	PROPELLANT		894	0	0.0	0	500	1.0	479	1000	1.0	991	1000	1.0	1,040
	IGNITER		0	1582	0.3	417	503	0.2	116	800	0.2	193	775	0.3	197
	OTTO FUEL		516	111	12.6	1,400	0	0.0	0	184	31.2	5,734	229	32.4	7,429
	FLEX HOSE (IMPROVED)		1,323	1300	1.2	1,521	1221	1.2	1,471	1600	1.2	1,984	1600	1.3	2,083
	SUB WIRE COIL		2,624	1562	2.3	3,515	1282	2.3	2,972	1409	2.4	3,365	1400	2.4	3,410
	TORPEDO WIRE COIL		2,572	1375	3.2	4,368	1413	3.3	4,627	1411	3.3	4,714	1400	3.4	4,770
F8101	OTHER EQUIPMENT INVESTMENT	A	5,739	0	0.0	8,016	0	0.0	7,104	0	0.0	8,745	0	0.0	6,810
F8833	PRODUCTION ENGINEERING (IN-HOUSE)	A	2,285	0	0.0	2,628	0	0.0	2,419	0	0.0	2,491	0	0.0	2,566
F8843	QUALITY ASSURANCE	A	330	0	0.0	589	0	0.0	607	0	0.0	624	0	0.0	643
F8863	ACCEPTANCE TEST AND EVALUATION	A	230	0	0.0	438	0	0.0	451	0	0.0	465	0	0.0	478
F8893	PRODUCTION ENGINEERING - CONTRACTOR	A	600	0	0.0	700	0	0.0	721	0	0.0	743	0	0.0	765
	N87 Subtotal		18,081			23,980			21,323			30,777			30,800
	TOTAL EQUIPMENT		23,175			28,842			26,239			35,919			36,120
TOTAL			23,175			28,842			26,239			35,919			36,120

CLASSIFICATION:		UNCLASSIFIED								
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2007	
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3					P-1 LINE ITEM NOMENCLATURE TORPEDO SUPPORT EQUIPMENT BLIN: 3301				SUBHEAD H3F8	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2006										
F8001 LIGHTWEIGHT SUPPORT EQUIPMENT										
UNIVERSAL REXTORP	34	31.4	NUWC, KEYPORT	07/06	C/FFP	UNKNOWN	06/07	09/07	YES	
MK54 IGNITER	170	0.4	NUWC, KEYPORT	N/A	C/FFP	PACIFIC SCIENTIFIC	03/06	11/06	YES	
F8100 EXERCISE AND EXPENDABLES AND COMPON										
MK 62-1 A-CABLE INSERT	1000	0.1	NUWC, KEYPORT	06/06	C/FFP	SEACON PHOENIX	SEP-06	02/07		
MK 62-1 A-CABLE RECEPTACLE	237	1.2	NUWC, KEYPORT	N/A	C/FFP	SEACON PHOENIX	SEP-06	06/07		
IGNITER	1582	0.3	NUWC, KEYPORT	N/A	C/FFP	ISRAEL MILITARY INDUSTRY	SEP-06	07/06		
OTTO FUEL	111	12.6	NSWC, INDIAN HEAD	N/A	SS/FFP	NSWC INDIAN HEAD, MD	10/05	02/06		
FLEX HOSE (IMPROVED)	1300	1.2	NUWC, KEYPORT	10/05	C/FFP	CORTLAND CABLE CO	04/06	06/06		
SUB WIRE COIL	1562	2.3	NUWC, KEYPORT	N/A	C/FFP	ENTWISTLE	06/06	02/07		
TORPEDO WIRE COIL	1375	3.2	NUWC, KEYPORT	N/A	C/FFP	ENTWISTLE	JUL-06	09/07		
FY 2007										
F8001 LIGHTWEIGHT SUPPORT EQUIPMENT										
MK 54 LANYARD START ASSEMBLY	200	1.3	NUWC, KEYPORT	08/06	C/FFP	UNKNOWN	02/07	12/07	YES	
UNIVERSAL REXTORP	32	32.0	NUWC, KEYPORT	N/A	C/FFP	UNKNOWN	06/07	09/07		
MK54 IGNITER	200	0.5	NUWC, KEYPORT	N/A	SS/FFP	PACIFIC SCIENTIFIC	03/07	08/07		
F8100 EXERCISE AND EXPENDABLES AND COMPON										
MK 62-1 A-CABLE INSERT	1000	0.1	NUWC, KEYPORT	N/A	C/FFP	SEACON PHOENIX	03/07	09/07		
MK 62-1 A-CABLE RECEPTACLE	217	1.1	NUWC, KEYPORT	11/06	C/FFP	UNKNOWN	03/07	09/07		
PROPELLANT	500	1.0	NUWC, KEYPORT	N/A	SS/FFP	ALLIANT TECHSYSTEMS	03/07	06/08		
IGNITER	503	0.2	NUWC, KEYPORT	N/A	C/FFP	ISRAEL MILITARY INDUSTRY	03/07	07/07		
FLEX HOSE (IMPROVED)	1221	1.2	NUWC, KEYPORT	N/A	C/FFP	CORTLAND CABLE CO.	03/07	07/07		
SUB WIRE COIL	1282	2.3	NUWC, KEYPORT	N/A	C/FFP	ENTWISTLE	03/07	04/08		
TORPEDO WIRE COIL	1413	3.3	NUWC, KEYPORT	11/06	C/FFP	UNKNOWN	03/07	01/08		
FY 2008										

CLASSIFICATION:		UNCLASSIFIED								
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE February 2007	
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3					P-1 LINE ITEM NOMENCLATURE TORPEDO SUPPORT EQUIPMENT BLIN: 3301				SUBHEAD H3F8	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE
F8001 LIGHTWEIGHT SUPPORT EQUIPMENT										
MK 54 LANYARD START ASSEMBLY	200	1.4	NUWC, KEYPORT	N/A	C/FFP	UNKNOWN	10/07	01/07		
UNIVERSAL REXTORP	36	32.0	NUWC, KEYPORT	N/A	C/FFP	UNKNOWN	03/08	01/09	YES	
MK54 IGNITER	200	0.5	NUWC, KEYPORT	N/A	SS/FFP	PACIFIC SCIENTIFIC	03/08	08/08		
F8100 EXERCISE AND EXPENDABLES AND COMPON										
MK 62-1 A-CABLE INSERT	1000	0.1	NUWC, KEYPORT	N/A	C/FFP	SEACON PHOENIX	03/08	07/08		
MK 62-1 A-CABLE RECEPTACLE	550	1.1	NUWC, KEYPORT	N/A	C/FFP	UNKNOWN	03/08	07/08		
PROPELLANT	1000	1.0	NUWC, KEYPORT	N/A	SS/FFP	ALLIANT TECHSYSTEMS	03/08	07/08		
IGNITER	800	0.2	NUWC, KEYPORT	N/A	C/FFP	ISRAEL MILITARY INDUSTRY	03/08	06/09		
OTTO FUEL	184	31.2	NSWC, INDIAN HEAD	N/A	SS/FFP	NSWC INDIAN HEAD	10/07	02/08		
FLEX HOSE (IMPROVED)	1600	1.2	NUWC, KEYPORT	N/A	C/FFP	CORTLAND CABLE CO.	03/08	07/08		
SUB WIRE COIL	1409	2.4	NUWC, KEYPORT	N/A	C/FFP	ENTWISTLE	03/08	04/09		
TORPEDO WIRE COIL	1411	3.3	NUWC, KEYPORT	N/A	C/FFP	UNKNOWN	03/08	07/08		
FY 2009										
F8001 LIGHTWEIGHT SUPPORT EQUIPMENT										
MK 54 LANYARD START ASSEMBLY	200	1.5	NUWC, KEYPORT	N/A	C/FFP	UNKNOWN	10/08	01/09		
MK 792/0 UNIVERSAL AUR CONTAINER	36	3.8	NUWC, KEYPORT	01/09	C/FFP	UNKNOWN	03/09	10/09		
UNIVERSAL REXTORP	31	32.0	NUWC, KEYPORT	N/A	C/FFP	UNKNOWN	03/09	01/10	YES	
MK54 IGNITER	200	0.5	NUWC, KEYPORT	N/A	SS/FFP	PACIFIC SCIENTIFIC	03/09	08/09		
F8100 EXERCISE AND EXPENDABLES AND COMPON										
MK 62-1 A-CABLE INSERT	1000	0.1	NUWC, KEYPORT	N/A	C/FFP	SEACON PHOENIX	03/09	07/09		
MK 62-1 A-CABLE RECEPTACLE	425	1.1	NUWC, KEYPORT	N/A	C/FFP	UNKNOWN	03/09	07/09		
PROPELLANT	1000	1.0	NUWC, KEYPORT	11/08	SS/FFP	UNKNOWN	03/09	09/09		
IGNITER	775	0.3	NUWC, KEYPORT	N/A	C/FFP	ISRAEL MILITARY INDUSTRY	03/09	09/09		
OTTO FUEL	229	32.4	NSWC, INDIAN HEAD	N/A	SS/FFP	NSWC INDIAN HEAD	12/08	02/09		
FLEX HOSE (IMPROVED)	1600	1.3	NUWC, KEYPORT	N/A	C/FFP	CORTLAND CABLE CO.	03/09	07/09		
SUB WIRE COIL	1400	2.4	NUWC, KEYPORT	11/08	C/FFP	UNKNOWN	03/09	09/09		
TORPEDO WIRE COIL	1400	3.4	NUWC, KEYPORT	N/A	C/FFP	UNKNOWN	03/09	07/09		

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System					DATE February 2007	
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3					P-1 LINE ITEM NOMENCLATURE TORPEDO SUPPORT EQUIPMENT BLIN: 3301					SUBHEAD H3F8	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE	
Remarks:											
*Units expressed in \$/lb											

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3						P-1 LINE ITEM NOMENCLATURE ASW RANGE SUPPORT SUBHEAD NO. 83F4 BLIN: 3302							
Program Element for Code B Items						Other Related Program Elements							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0
COST (In Millions)	14.6			12.9	13.2	9.5	9.9	10.3	10.7	10.9	11.1	0.0	103.1
SPARES COST (In Millions)	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PROGRAM DESCRIPTION/JUSTIFICATION:													
The ASW Range support program provides training range equipment, weapon proofing range equipment, and Fleet support equipment for use on the Navy's underwater ranges. This equipment is used to instrument Fleet exercises and torpedo firings, ASW readiness assessment and ASW weapon production acceptance testing. The Weapon Fleet training ranges supported are Southern California Offshore Range (SCORE), Barking Sands Tactical Underwater Range/Barking Sands Underwater Range Extension (BARSTUR/BSURE), Atlantic Underwater Test and Evaluation Center (AUTEC) and Test and Evaluation (T&E) ranges are Nanoose, Dabob Bay and Quinault.													
F4001													
Pinger Exercise Components are placed in weapons and other underwater vehicles for tracking during training and T&E exercises, and to insure safe operation and movement of all craft and weapons on the ranges. In addition, pinger components are also procured to support the future Shallow Water Training Ranges at both coasts and Hawaii.													
F4003													
Recovery Equipment is used on T&E ranges for recovering weapons on or buried in the sea floor. Approximately \$10 million of hardware is recovered each year using these devices.													
F4004													
The T&E Range Equipment line provides for improvement and modernization of range equipment for YTT (Yard Torpedo Tender) and test crafts; portable tracking range components used at remote sites for testing requirements in different sea-bottom, littoral and cold water environments; and other range systems in support of weapon T&E operations.													

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE February 2007
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3	P-1 LINE ITEM NOMENCLATURE ASW RANGE SUPPORT SUBHEAD NO. 83F4 BLIN: 3302	
<p>F4005 MK30 COMPONENTS The ASW Target MK 30 Mod 1 provides essential fleet ASW training on the Navy's underwater tracking ranges. The MK 30 Mod 1 is currently used at the BARSTUR - Hawaii, AUTEK-Bahamas, and SCORE. ASW range support funds are used to procure components for the MK 30 that are consumed/expended during fleet in-water runs. These funds are also used to replace obsolete components and improve maintenance and reliability of the targets.</p> <p>F4006 The stationary target components include the MK 28 Targets, and T&E Targets. MK 28 Targets are used for conducting Service Weapons Test (SWT) on in-service and advanced warshot torpedoes. The SWT is the only test the Navy has to verify the explosive chain of torpedoes. Funding is used to procure target systems and components expended during SWT operations in addition to improvement and modernization projects. The T&E targets include the MK 69, a bottom mounted stationary target, and Over-the-side (OTS), a surface deployed target, used to test various weapon attributes during T&E exercises. These targets are needed to fill specific technical requirements for the MK 48 ADCAP, MK 50 and MK54 torpedo upgrades. Funding is used to procure components that improve operability and maintenance of the target.</p> <p>F4830 PRODUCTION ENGINEERING IN-HOUSE Production Engineering funds support efforts performed by a field activity or contractor during the production phase of these projects.</p> <p>F4850 PRODUCT IMPROVEMENT Provide Product Improvement Support for range and fleet support equipment. Product Improvement funds enhancement tasks to support ranging of the MK30 MOD 1 and MOD 2.</p> <p>F4900 PRODUCTION ENGINEERING CONTRACTOR Production Engineering Contractor supports tasks associated with obsolescence for the MK30 Mod 1 and Mod 2.</p>		

CLASSIFICATION:			UNCLASSIFIED												
EXHIBIT P-5 COST ANALYSIS						Weapon System						DATE February 2007			
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 3						ID Code	P-1 LINE ITEM NOMENCLATURE ASW RANGE SUPPORT SUBHEAD NO. 83F4								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u>EQUIPMENT</u>														
F4001	PINGER EXERCISE COMPONENTS (S06)		2,342	0	0.0	2,344	0	0.0	2,428	0	0.0	1,810	0	0.0	1,961
F4003	RECOVERY EQUIPMENT (S06)		347	0	0.0	326	0	0.0	356	0	0.0	0	0	0.0	0
F4004	TEST & EVALUATION RANGE EQUIPMENT (S06)		2,329	0	0.0	2,476	0	0.0	2,424	0	0.0	0	0	0.0	0
F4005	MK30 COMPONENTS (SUBS)		3,087	0	0.0	3,240	0	0.0	3,220	0	0.0	3,719	0	0.0	3,878
F4006	STATIONARY TARGET COMPONENTS (S06)		1,591	0	0.0	1,460	0	0.0	1,600	0	0.0	684	0	0.0	700
F4830	PRODUCTION ENGINEERING IN-HOUSE (S06)		622	0	0.0	650	0	0.0	660	0	0.0	670	0	0.0	695
F4830	PRODUCTION ENGINEERING IN-HOUSE (SUBS)		1,851	0	0.0	1,719	0	0.0	1,880	0	0.0	1,945	0	0.0	1,976
F4850	PRODUCT IMPROVEMENT (S06)		500	0	0.0	514	0	0.0	525	0	0.0	523	0	0.0	541
F4850	PRODUCT IMPROVEMENT (SUBS)		150	0	0.0	136	0	0.0	141	0	0.0	145	0	0.0	148
	TOTAL EQUIPMENT		12,819			12,865			13,234			9,496			9,899
TOTAL			12,819			12,865			13,234			9,496			9,899
Comment:															

CLASSIFICATION: **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40					DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY Weapons Procurement, Navy BA - 3 Torpedoes and Related Equipment			P-1 ITEM NOMENCLATURE BLI 2410 FIRST DESTINATION TRANSPORTATION (FDT) / 93TA					
	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
COST (In Millions)	3.1	3.2	3.4	3.5	3.5	3.6	3.7	3.8
<p>First Destination Transportation (FDT) provides for the movement of newly procured equipment and material from the contractor's plant to the initial point of receipt for subsequent shipment to its destination.</p>								

CLASSIFICATION: UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS

DATE:

P-5

February 2007

APPROPRIATION/BUDGET ACTIVITY
 Weapons Procurement, Navy
 BA 3 Torpedoes and Related Equipment

COST CODE	ELEMENT OF COST	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS															
			FY 2006		FY 2007		FY 2008		FY 2009									
			QTY	COST	QTY	COST	QTY	COST	QTY	COST								
TA001	First Destination Transportation			3,145		3,246		3,395		3,472								

DD FORM 2446, JUN 86

P-1	PAGE NO.
27	2 of 2

UNCLASSIFIED

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4						P-1 LINE ITEM NOMENCLATURE SMALL ARMS AND WEAPONS SUBHEAD NO. 74E3 BLIN: 4129							
Program Element for Code B Items						Other Related Program Elements							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity													
COST (In Millions)				22.9	12.5	14.2	13.7	15.3	15.6	19.6	18.9	0.0	132.7
SPARES COST (In Millions)													
PROGRAM DESCRIPTION/JUSTIFICATION:													
<p>Quantities of weapons procured with the above funding are to meet small arms allowances and inventory objectives. This line item provides for initial issue procurement, modernization, standardization and stock replenishment procurement of a wide variety of small arms and weapons (caliber .50 and below), including required gun mounts and associated support components. This line also provides for procurement of sufficient types and quantities of weapons to support training, security afloat and shore missions of approximately 2,495 ship/ashore activities Navy-wide.</p> <p>This line item procures SCAR, M240/Mk-46/Mk-19/.50 Cal Machine guns, Mk-82 Sniper Rifles, M16A3 Rifles, M727 Carbines, 12 Gauge Shotguns, M11 Pistols, Mk-82/93/95/97 Mounts, and other related equipment for Naval Mobile Construction Battalions, Naval Construction Force Support Units, Construction Battalion Maintenance Units and Mobile Security Force.</p> <p>Additional funds have been provided for arming of the active component of the Naval Coastal Warfare. Beginning in FY08 funding has been provided for arming of newly established Navy Expeditionary Combat Command Units.</p>													

Exhibit P-40, Budget Item Justification
(Exhibit P-40, page 1 of 5)
Classification:
Unclassified

CLASSIFICATION:			UNCLASSIFIED												
EXHIBIT P-5 COST ANALYSIS						Weapon System						DATE February 2007			
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4						ID Code	P-1 LINE ITEM NOMENCLATURE SMALL ARMS AND WEAPONS SUBHEAD NO. 74E3								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EQUIPMENT														
E3001	M11 9MM PISTOL			100	0.7	74	500	0.7	326	500	0.7	326	500	0.7	326
E3001	M1911.45 ACP PISTOL			20	0.8	16	0	0.0	0	0	0.0	0	0	0.0	0
E3001	M203 40MM GL			157	0.7	117	0	0.0	0	369	1.0	352	544	1.0	519
E3001	M224 60MM MORTAR			7	22.9	160	0	0.0	0	0	0.0	0	0	0.0	0
E3001	M240 7.62MM MG			1059	10.9	11,582	0	0.0	0	263	8.7	2,298	373	8.0	2,997
E3001	M2HB .50 CAL MG			101	24.0	2,425	506	13.6	6,900	110	15.0	1,646	121	15.0	1,811
E3001	M2HB .50 CAL MG REFURB			101	4.5	453	381	4.1	1,579	0	0.0	0	0	0.0	0
E3001	M79 40MM GL			60	0.8	46	0	0.0	0	0	0.0	0	0	0.0	0
E3001	M9 9MM PISTOL			224	0.8	174	0	0.0	0	0	0.0	0	150	0.8	117
E3001	MK44 7.62MM MINIGUN			25	70.3	1,758	0	0.0	0	9	72.3	651	5	72.4	362
E3001	MK14 ENHANCED BATTLE RIFLE			233	2.3	536	0	0.0	0	0	0.0	0	0	0.0	0
E3001	MK-19 MOD 3 40MM GMG			14	22.4	314	0	0.0	0	92	21.1	1,938	103	21.1	2,169
E3001	MOSS 500A1 12GA SHOTGUN			106	0.4	41	0	0.0	0	0	0.0	0	0	0.0	0
E3001	MOD 727/M4 5.56MM CARBINE			1073	1.7	1,838	400	1.4	560	1900	1.4	2,660	1266	1.4	1,772
E3001	N75 MOUNTS			100	3.5	348	0	0.0	0	171	3.1	537	171	3.1	537
E3001	P239 9MM COMPACT PISTOL			183	0.7	120	0	0.0	0	180	0.7	126	180	0.7	126
E3001	PRODUCTION ENGINEERING			0	0.0	129	0	0.0	92	0	0.0	433	0	0.0	190
E3001	REFURBISHMENT PARTS			0	0.0	1,268	0	0.0	530	0	0.0	750	0	0.0	900
E3001	RIVERINE MOUNTS			59	2.1	126	0	0.0	0	0	0.0	0	64	1.9	124
E3001	SMALL ARMS MOUNTS			384	3.5	1,328	395	1.6	613	300	1.6	466	300	1.6	466
E3001	SCAR			0	0.0	0	512	1.4	717	1345	1.4	1,883	500	1.4	700
E3001	M82A1			0	0.0	0	0	0.0	0	5	9.4	47	5	9.4	47
E3001	MK44 REFURB			0	0.0	0	30	38.0	1,140	0	0.0	0	10	38.0	380
E3001	M16 RIFLE			0	0.0	0	0	0.0	0	100	1.2	120	100	1.2	120
	TOTAL EQUIPMENT					22,853			12,457			14,233			13,663
	TOTAL			0		22,853			12,457			14,233			13,663

CLASSIFICATION:		UNCLASSIFIED								
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2007	
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4					P-1 LINE ITEM NOMENCLATURE SMALL ARMS AND WEAPONS BLIN: 4129				SUBHEAD 74E3	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2006										
E3001										
M11 9MM PISTOL	100	0.7	ROCK ISLAND ARSENAL	JUN-06	FFP	SIG ARMS EXETER, NH	NOV-06	JUN-06		
M1911.45 ACP PISTOL	20	0.8	NSWC, CRANE	N/A	WX	NSWC, CRANE	NOV-06	JUN-06		
M203 40MM GL	157	0.7	ROCK ISLAND ARSENAL	JUN-06	FFP	COLT ARMS	AUG-06	SEP-07		
M224 60MM MORTAR	7	22.9	NSWC, CRANE	OCT-05	FFP	USA DEPOT ANNISTON, AL	OCT-05	JUL-06		
M240 7.62MM MG	1059	10.9	ROCK ISLAND ARSENAL	NOV-05	FFP	FNMI COLUMBIA, SC	JUL-06	JAN-08		
M2HB .50 CAL MG	101	24.0	ROCK ISLAND ARSENAL	NOV-05	FFP	GD BURLINGTON, VT	JUL-06	JAN-08		
M2HB .50 CAL MG REFURB	101	4.5	NSWC, CRANE	N/A	WX	NSWC, CRANE	DEC-05	DEC-05		
M79 40MM GL	60	0.8	NSWC, CRANE	N/A	WX	NSWC, CRANE	DEC-05	DEC-05		
M9 9MM PISTOL	224	0.8	NSWC, CRANE	N/A	WX	NSWC, CRANE	DEC-05	DEC-05		
MK44 7.62MM MINIGUN	25	70.3	NSWC, CRANE	NOV-05	FFP	DILLON, PHOENIX, AZ	DEC-05	FEB-06		
MK14 ENHANCED BATTLE RIFLE	233	2.3	NSWC, CRANE	N/A	WX	NSWC, CRANE	FEB-06	SEP-06		
MK-19 MOD 3 40MM GMG	28	11.2	NSWC, CRANE	OCT-05	FFP	GD BURLINGTON, VT	OCT-05	MAR-07		
MOSS 500A1 12GA SHOTGUN	106	0.4	NSWC, CRANE	FEB-06	FFP-IDIQ	MOSSBERG, N. HAVEN, CT	FEB-06	SEP-06		
MOD 727/M4 5.56MM CARBINE	1073	1.7	NSWC, CRANE	N/A	WX	NSWC, CRANE	DEC-05	DEC-05		
N75 MOUNTS	100	3.5	NSWC, CRANE	NOV-05	IDIQ	VARIOUS	DEC-05	DEC-05		
P239 9MM COMPACT PISTOL	183	0.7	NSWC, CRANE	NOV-05	FFP	SIG ARMS EXETER, NH	MAR-06	JUN-06		
RIVERINE MOUNTS	59	2.1	NSWC, CRANE	NOV-05	IDIQ	VARIOUS	DEC-05	DEC-05		
SMALL ARMS MOUNTS	384	3.5	NSWC, CRANE	NOV-05	IDIQ	VARIOUS	DEC-05	DEC-05		

CLASSIFICATION:
UNCLASSIFIED

CLASSIFICATION:		UNCLASSIFIED								
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE February 2007	
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4					P-1 LINE ITEM NOMENCLATURE SMALL ARMS AND WEAPONS BLIN: 4129				SUBHEAD 74E3	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2007										
E3001										
M11 9MM PISTOL	500	0.7	ROCK ISLAND ARSENAL	NOV-06	FFP	SIG ARMS EXETER, NH	DEC-06	SEP-07		
M2HB .50 CAL MG	506	13.6	ROCK ISLAND ARSENAL	NOV-06	FFP	GD BURLINGTON, VT	DEC-06	SEP-07		
M2HB .50 CAL MG REFURB	381	4.1	NSWC, CRANE	N/A	WX	NSWC, CRANE	FEB-07	SEP-07		
MOD 727/M4 5.56MM CARBINE	400	1.4	NSWC, CRANE	N/A	WX	NSWC, CRANE	FEB-07	SEP-07		
SMALL ARMS MOUNTS	395	1.6	NSWC, CRANE	NOV-06	IDIQ	VARIOUS	DEC-06	JUN-07		
SCAR	512	1.4	NSWC, CRANE	JUN-07	FFP	FNMI, COLUMBIA, SC	JUN-07	JUN-08		
MK44 REFURB	30	38.0	NSWC, CRANE	N/A	WX	NSWC, CRANE	FEB-07	APR-07		
FY 2008										
E3001										
M11 9MM PISTOL	500	0.7	ROCK ISLAND ARSENAL	NOV-07	FFP	SIGARMS, EXETER, NH	JAN-08	OCT-08		
M16A3 5.56MM RIFLE	100	1.2	ROCK ISLAND ARSENAL	NOV-07	FFP	COLT ARMS, N HAVEN, CN	JAN-08	JUL-08		
M203 40MM GL	369	1.0	ROCK ISLAND ARSENAL	MAY-08	IDIQ	COLT ARMS, N HAVEN, CN	AUG-08	JUN-09		
M240 7.62MM MG	263	8.7	ROCK ISLAND ARSENAL	NOV-07	IDIQ	FNMI, COLUMBIA, SC	DEC-07	SEP-08		
M2HB .50 CAL MG	110	15.0	ROCK ISLAND ARSENAL	NOV-07	FFP	GD, BURLINGTON, VT	DEC-07	JUN-09		
MK44 7.62MM MINIGUN	9	72.3	NSWC CRANE	NOV-07	FFP	DILLON, PHOENIX, AZ	JAN-08	JUL-08		
MK-19 MOD 3 40MM GMG	92	21.1	NSWC CRANE	DEC-07	FFP	GD BURLINGTON, VT	JUN-08	JUN-09		
MOD 727/M4 5.56MM CARBINE	1900	1.4	NSWC, CRANE	DEC-07	FFP	COLT ARMS, N HAVEN, CN	JAN-09	DEC-09		
N75 MOUNTS	171	3.1	NSWC CRANE	NOV-07	IDIQ	VARIOUS	DEC-07	DEC-08		
P239 9MM COMPACT PISTOL	180	0.7	NSWC CRANE	NOV-07	FFP	SIGARMS EXETER, NH	MAR-08	OCT-08		
SMALL ARMS MOUNTS	300	1.6	NSWC CRANE	NOV-07	IDIQ	VARIOUS	DEC-07	DEC-08		
SCAR	1345	1.4	NSWC, CRANE	DEC-07	FFP	FNMI, COLUMBIA, SC	FEB-08	NOV-08		
M82A1	5	9.4	ROCK ISLAND ARSENAL	DEC-07	FFP	BARRETTA FIREARMS MAN, TN	FEB-08	NOV-08		

CLASSIFICATION:
UNCLASSIFIED

CLASSIFICATION:		UNCLASSIFIED								
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System				DATE February 2007	
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4					P-1 LINE ITEM NOMENCLATURE SMALL ARMS AND WEAPONS BLIN: 4129				SUBHEAD 74E3	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2009										
E3001										
M11 9MM PISTOL	500	0.7	ROCK ISLAND ARSENAL	NOV-08	FFP	SIG ARMS EXETER, NH	JAN-09	OCT-09		
M16A3 5.56MM RIFLE	100	1.2	ROCK ISLAND ARSENAL	NOV-08	FFP	COLT ARMS, N HAVEN, CT	JAN-09	JUL-09		
M203 40MM GL	544	1.0	ROCK ISLAND ARSENAL	NOV-08	IDIQ	COLT ARMS, N HAVEN, CT	FEB-09	DEC-09		
M240 7.62MM MG	373	8.0	ROCK ISLAND ARSENAL	NOV-08	IDIQ	FNMI COLUMBIA, SC	DEC-08	SEP-09		
M2HB .50 CAL MG	121	15.0	ROCK ISLAND ARSENAL	NOV-08	FFP	GC BURLINGTON, VT	DEC-08	JUN-10		
M9 9MM PISTOL	150	0.8	ROCK ISLAND ARSENAL	NOV-08	FFP	BERRETTA, FIREARMS MAN,TN	DEC-08	SEP-09		
MK44 7.62MM MINIGUN	5	72.4	NSWC, CRANE	NOV-08	FFP	DILLON PHOENIX, AZ	JAN-09	JUL-09		
MK-19 MOD 3 40MM GMG	103	21.1	NSWC, CRANE	DEC-08	FFP	GD BURLINGTON, VT	JUN-09	JUN-10		
MOD 727/M4 5.56MM CARBINE	1266	1.4	NSWC, CRANE	NOV-08	FFP	COLT ARMS, N HAVEN, CT	DEC-08	DEC-09		
N75 MOUNTS	171	3.1	NSWC, CRANE	NOV-08	IDIQ	VARIOUS	DEC-08	DEC-09		
P239 9MM COMPACT PISTOL	180	0.7	NSWC, CRANE	NOV-08	FFP	SIG ARMS EXETER, NH	MAR-09	OCT-09		
RIVERINE MOUNTS	64	1.9	NSWC, CRANE	NOV-08	IDIQ	VARIOUS	DEC-08	DEC-09		
SMALL ARMS MOUNTS	300	1.6	NSWC, CRANE	NOV-08	IDIQ	VARIOUS	DEC-08	DEC-09		
SCAR	500	1.4	NSWC, CRANE	DEC-08	FFP	FNMI COLUMBIA, SC	FEB-09	NOV-09		
M82A1	5	9.4	ROCK ISLAND ARSENAL	DEC-08	FFP	BARRETTA FIRARMS MAN, TN	FEB-09	OCT-09		
MK44 REFURB	10	38.0	NSWC, CRANE	NOV-08	FFP	DILLON, PHOENIX, AZ	JAN-09	JUL-09		

CLASSIFICATION:
UNCLASSIFIED

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4						P-1 LINE ITEM NOMENCLATURE CIWS MODS SUBHEAD NO. A4DT BLIN: 4205							
Program Element for Code B Items						Other Related Program Elements							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity	81			39	27	30	26	28	7	0	2	0	240
COST (In Millions)	312.4	A		193.0	150.6	182.3	169.2	194.8	71.3	23.5	23.9	16.1	1,336.7
SPARES COST (In Millions)	0.5	A		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
PROGRAM DESCRIPTION/JUSTIFICATION:													
Phalanx Close-In Weapon System (CIWS) is a high fire rate weapon system that automatically acquires, tracks and destroys Anti-Ship Missiles that have penetrated all other ship's defenses.													
DT001 - CIWS BLOCK 1B													
This line is an upgrade/conversion to CIWS incorporating a stabilized thermal imager and an automatic acquisition video tracker that provides the additional capability to engage small, high speed, maneuvering surface craft and low, slow aircraft and helicopters. The thermal imager also improves performance against Anti-Ship Cruise Missiles by providing more accurate angle tracking information to the fire control computer. CIWS Block 1B is scheduled to be installed on the following ship classes: CGs, CVNs, DDGs, FFGs, LCCs, LHAs, LHDs, LPDs, LSDs, WMSLs and trainers. The installations will be completed during a limited availability by Shipalt/AIT.													
There are 237 shipboard systems, 2 trainers and 1 EDM/PCI mount in the Program of Record. This budget also provides for installation of 6 WMSLs and 2 CG-71 systems procured under separate budget line items.													
DT6IN-FMP INSTALLATION													
Funding is for the installation of equipment, including fleet modernization program installs and installation of equipment at shore facilities.													

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED DT001 CIWS BLOCK 1B CIWS BLOCK 1B	TYPE MODIFICATION: PHALANX CIWS BLOCK 1	MODIFICATION TITLE: CIWS MODS
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DESCRIPTION/JUSTIFICATION:
 THE BLOCK 1B SURFACE MODE MOUNT INCLUDES THE ADDITION OF A THERMAL IMAGER, AN AUTOMATIC ACQUISITION VIDEO TRACKER AND STABILIZATION SYSTEM FOR THE TRACKER ESSENTIAL TO PROVIDE THE FLEET CAPABILITY AGAINST SMALL HIGH SPEED SURFACE THREATS AND LOW SLOW SPEED AIR THREATS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																						
<u>RDT&E</u>		40.3																				40.3
<u>PROCUREMENT</u>																						
MODIFICATION KITS																						
MODIFICATION KITS - UNIT COST																						
MODIFICATION NONRECURRING																						
EQUIPMENT	79	165.4	39	86.9	27	59.1	30	66.5	26	56.0	28	71.2	7	14.0			2	3.6			238	522.7
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS				2.6		3.9		3.4		13.1		12.5		9.2		7.1		5.4		7.3		64.5
DATA																						
TRAINING EQUIPMENT	2	6.3																			2	6.3
SUPPORT EQUIPMENT																						
PRODUCTION ENGR SUPPORT		64.8		6.3		6.4		5.4		5.3		7.1		4.4		1.2		3.9		4.4		109.2
CIWS BLOCK 1B MOD KITS	79	56.7	39	89.4	27	70.2	30	79.7	26	74.0	28	81.3	7	22.9			2	5.9			238	480.1
GRAY RADOMES	240	1.9																			240	1.9
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	34	17.3	20	7.8	22	11.0	40	27.2	31	20.7	31	22.6	27	20.7	25	15.2	7	5.1	8	4.4	245	152.0
<u>TOTAL PROCUREMENT</u>		312.4		193.0		150.6		182.3		169.2		194.8		71.3		23.5		23.9		16.1		1,336.7

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED CIWS BLOCK 1B CIWS BLOCK 1B	MODIFICATION TITLE: CIWS MODS
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 22 Months

CONTRACT DATES:		FY 2006:	SEP-06	FY 2007:	FEB-07	FY 2008:	NOV-07	FY 2009:	NOV-08
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DELIVERY DATES:		FY 2006:	JUN-08	FY 2007:	SEP-08	FY 2008:	SEP-09	FY 2009:	SEP-10
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(\$ in Millions)

COST	Prior Years		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS	34	17.3	20	4.6	22	6.1	4	2.1														80	30.1
FY 2006 EQUIPMENT				3.2			36	19.3	4	2.0												40	24.5
FY 2007 EQUIPMENT						4.9			27	13.7	1	0.6										28	19.2
FY 2008 EQUIPMENT								5.8			30	17.4	1	0.6								31	23.8
FY 2009 EQUIPMENT									5.0			26	15.8	1	0.6							27	21.4
FY 2010 EQUIPMENT											4.6				24	13.5	5	3.3				29	21.4
FY 2011 EQUIPMENT													4.3				2	1.3	6	3.2		8	8.8
FY 2012 EQUIPMENT															1.1								1.1
FY 2013 EQUIPMENT																	0.5		2	1.0		2	1.5
TO COMPLETE																					0.2		0.2

INSTALLATION SCHEDULE

	FY 2005 & Prior	FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 2013				TC	TOTAL	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
In	35	4	6	6	0	8	9	6	0	11	10	10	12	9	6	6	9	9	9	9	9	2	6	6	6	8	7	9	9	3	3	2	0	0	2	237
Out	34	1	3	9	7	4	7	4	7	9	10	10	11	6	12	4	9	6	8	14	3	5	6	9	7	6	10	8	1	1	2	3	1	8	245	

Remarks: Increased ECP procurement from FY09 - FY12 is to accomodate Amphibious AAW Self-Defense PRA improvements. The Installation "In" includes 237 shipboard systems in the Program of Record (POR). The Installation "Out" includes the POR and an additional 6 WMSL and 2 CG-71 systems procured under separate budget line items.

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4						P-1 LINE ITEM NOMENCLATURE COAST GUARD WEAPONS SUBHEAD NO. A4CG BLIN: 4206							
Program Element for Code B Items						Other Related Program Elements							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0
COST (In Millions)	0.0			5.3	5.4	20.5	21.0	22.7	35.4	12.3	16.7	409.4	548.7
SPARES COST (In Millions)	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PROGRAM DESCRIPTION/JUSTIFICATION:													
<p>The Coast Guard Weapons line funds the Coast Guard requirement for Combat System Suites for new construction ships under the Coast Guard Integrated Deepwater System Replacement Project. Under inter-service agreement (delineated in OPNAVINST 4000.79A), DON provides the combat, detection, and electronic systems required for the Coast Guard to integrate with the Navy in times of war and conflict. Ship Construction and installation costs are funded under the Department of Homeland Security appropriation.</p> <p>Combat and Weapon System Suite procured must complement and integrate with future Navy Combat Systems. The suite is an appropriate balance of equipment to ensure the Coast Guard is prepared to accomplish its assigned Naval Warfare Tasks in concert with U.S. Navy units. The Combat Systems and Weapon Suite will be aligned with future Naval ship building programs to support commonality among the two Services' systems and meet National Fleet objectives.</p> <p>The Deepwater Combat Suites will include the following:</p> <p>National Security Cutter (WMSL) Weapons Systems - Provides the Phalanx CIWS 1B gun and fire control systems to engage surface and air threats, MK 110 57mm Gun and MK 160 Mod 12 Gun Fire Control Systems (GFCS) will allow the WMSL to engage surface threats including the capability to fire warnings shots, disabling fire and achieve mission kill against these threats in accordance with National Fleet Policy and OPNAVINST 4000.79A.</p> <p>Offshore Patrol Cutter (WMSM) Weapon Systems - Provides the MK110 57mm Gun and MK 160 Mod 12 Gun Fire Control System (GFCS) will allow the WMSM to engage surface threats including the capability to fire warning shots, disabling fire and achieve mission kill against these threats in accordance with National Fleet Policy and OPNAVINST 4000.79A.</p> <p>Fast Response Cutter (WPC) weapon System - Provides the MK 38 Mod 2 Gun to engage surface threats and targets including the capability to fire warning shots and disabling fire in accordance with National Fleet and OPNAVINST 4000.79A.</p>													

CLASSIFICATION:			UNCLASSIFIED													
EXHIBIT P-5 COST ANALYSIS						Weapon System						DATE February 2007				
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4						ID Code	P-1 LINE ITEM NOMENCLATURE COAST GUARD WEAPONS SUBHEAD NO. A4CG									
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009				
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
CG001	<u>EQUIPMENT</u>															
	DEEP WATER COMBAT SUITES															
	PHALANX CIWS WEAPONS SYSTEMS		0	1	5,303.0	5,303	1	5,363.0	5,363	1	5,432.0	5,432	1	5,454.0	5,454	
	MK 110 57MM GUN		0	0	0.0	0	0	0.0	0	1	8,000.0	8,000	1	8,206.0	8,206	
	MK 160 MOD12 GFCS		0	0	0.0	0	0	0.0	0	1	1,266.0	1,266	1	1,306.0	1,306	
	MK 38 MOD 2 GUN		0	0	0.0	0	0	0.0	0	2	1,098.5	2,197	2	1,123.5	2,247	
	COMBAT SYSTEM INTEGRATION		0	0	0.0	0	0	0.0	0	0	0.0	321	0	0.0	458	
	MK 110 57MM GUN - ILS SUPPORT		0	0	0.0	0	0	0.0	0	0	0.0	2,300	0	0.0	2,300	
	MK 160 GFCS - ILS SUPPORT		0	0	0.0	0	0	0.0	0	0	0.0	700	0	0.0	700	
	MK 38 MOD 2 GUN - ILS SUPPORT		0	0	0.0	0	0	0.0	0	0	0.0	300	0	0.0	300	
	TOTAL EQUIPMENT		0			5,303			5,363		20,516			20,971		
TOTAL			0			5,303			5,363		20,516			20,971		

CLASSIFICATION:		UNCLASSIFIED								
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2007	
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4					P-1 LINE ITEM NOMENCLATURE COAST GUARD WEAPONS BLIN: 4206				SUBHEAD A4CG	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2006										
CG001 DEEP WATER COMBAT SUITES PHALANX CIWS WEAPONS SYSTEMS	1	5,303.0	NAVSEA	MAY-05	SS/FP	RAYTHEON COMPANY, LOUISV	AUG-06	NOV-07	YES	
FY 2007										
CG001 DEEP WATER COMBAT SUITES PHALANX CIWS WEAPONS SYSTEMS	1	5,363.0	NAVSEA	MAY-06	SS/FP	RAYTHEON COMPANY, LOUISV	APR-07	NOV-08	YES	
FY 2008										
CG001 DEEP WATER COMBAT SUITES PHALANX CIWS WEAPONS SYSTEMS	1	5,432.0	NAVSEA	MAY-07	SS/FP	RAYTHEON COMPANY, LOUISV	NOV-07	NOV-09	YES	
MK 110 57MM GUN	1	8,000.0	NAVSEA	MAY-07	SS/FP	BAE SYSTEMS, LOUIS	NOV-07	NOV-09	YES	
MK 160 MOD12 GFCS	1	1,266.0	NAVSEA	MAY-07	SS/FP	VARIOUS	NOV-07	NOV-09	YES	
MK 38 MOD 2 GUN	2	1,098.5	NAVSEA	MAY-07	SS/FP	BAE SYSTEMS, LOUISVILLE	NOV-07	NOV-09	YES	
FY 2009										
CG001 DEEP WATER COMBAT SUITES PHALANX CIWS WEAPONS SYSTEMS	1	5,454.0	NAVSEA	MAY-08	SS/FP	RAYTHEON COMPANY, LOUISVI	NOV-08	NOV-10	YES	
MK 110 57MM GUN	1	8,206.0	NAVSEA	MAY-08	SS/FP	BAE SYSTEMS, LOUISVILLE	NOV-08	NOV-10	YES	
MK 160 MOD12 GFCS	1	1,306.0	NAVSEA	MAY-08	SS/FP	VARIOUS	NOV-08	NOV-10	YES	
MK 38 MOD 2 GUN	2	1,123.5	NAVSEA	MAY-08	SS/FP	BAE SYSTEMS, LOUISVILLE	NOV-08	NOV-10	YES	

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED CG001 DEEP WATER COMBAT SUITES PHALANX CIWS WEAPONS SYSTEMS	TYPE MODIFICATION:	MODIFICATION TITLE: COAST GUARD WEAPONS
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DESCRIPTION/JUSTIFICATION:
Provides the Phalanx CIWS 1B gun and fire control systems to engage surface and air threats, including the capability to fire warning shots, disabling fire and achieve mission kill against threats.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																						
<u>RDT&E</u>																						
<u>PROCUREMENT</u>																						
MODIFICATION KITS																						
MODIFICATION KITS - UNIT COST																						
MODIFICATION NONRECURRING																						
EQUIPMENT			1	5.3	1	5.4	1	5.4	1	5.5	1	5.5	1	5.7							6	32.8
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST																						
<u>TOTAL PROCUREMENT</u>				5.3		5.4		5.4		5.5		5.5		5.7								32.8

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED CG001 DEEP WATER COMBAT SUITES MK 110 57MM GUN	TYPE MODIFICATION:	MODIFICATION TITLE: COAST GUARD WEAPONS
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DESCRIPTION/JUSTIFICATION:
Provides the MK 110 57mm gun systems to engage surface threats, including the capability to fire warning shots, disabling fire and achieve mission kill against threats.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																							
<u>RDT&E</u>																							
<u>PROCUREMENT</u>																							
MODIFICATION KITS																							
MODIFICATION KITS - UNIT COST																							
MODIFICATION NONRECURRING																							
EQUIPMENT							1	8.0	1	8.2	1	8.3	2	16.6	1	4.7	1	8.1	22	226.7	29	280.6	
EQUIPMENT NONRECURRING																							
ENGINEERING CHANGE ORDERS																							
DATA																							
TRAINING EQUIPMENT																							
SUPPORT EQUIPMENT																							
ILS/TEST SUPPORT								2.3		2.3		2.4		4.8		1.4		2.3				15.5	
OTHER																							
OTHER																							
INTERIM CONTRACTOR SUPPORT																							
INSTALL COST																							
<u>TOTAL PROCUREMENT</u>								10.3		10.5		10.7		21.4		6.1		10.4		226.7		296.1	

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED CG001 DEEP WATER COMBAT SUITES MK 160 MOD12 GFCS	TYPE MODIFICATION:	MODIFICATION TITLE: COAST GUARD WEAPONS
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DESCRIPTION/JUSTIFICATION:
Provides the MK 160 gun fire control systems to support the MK 110 57mm Gun in engaging surface threats, including the capability to fire warning shots, disabling fire and achieve mission kill against threats.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
<u>FINANCIAL PLAN(IN MILLIONS)</u>																							
<u>RDT&E</u>																							
<u>PROCUREMENT</u>																							
MODIFICATION KITS																							
MODIFICATION KITS - UNIT COST																							
MODIFICATION NONRECURRING																							
EQUIPMENT							1	1.3	1	1.3	1	1.3	2	2.7	1	1.4	1	1.4	22	35.6	29	45.0	
EQUIPMENT NONRECURRING																							
ENGINEERING CHANGE ORDERS																							
DATA																							
TRAINING EQUIPMENT																							
SUPPORT EQUIPMENT																							
ILS TEST SUPPORT							0.7		0.7		0.7		1.5		0.7		0.8					5.1	
OTHER																							
OTHER																							
INTERIM CONTRACTOR SUPPORT																							
INSTALL COST																							
<u>TOTAL PROCUREMENT</u>							2.0		2.0		2.0		4.2		2.1		2.2		35.6		50.1		

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED CG001 DEEP WATER COMBAT SUITES MK 38 MOD 2 GUN	TYPE MODIFICATION:	MODIFICATION TITLE: COAST GUARD WEAPONS
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DESCRIPTION/JUSTIFICATION:
 Provides the MK 38 Mod 2 Gun Systems to support the WPC in engaging surface threats, including the capability to fire warning shots, disabling fire and achieve mission kill against threats.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																						
<u>RDT&E</u>																						
<u>PROCUREMENT</u>																						
MODIFICATION KITS																						
MODIFICATION KITS - UNIT COST																						
MODIFICATION NONRECURRING																						
EQUIPMENT							2	2.2	2	2.2	3	3.4	3	3.5	3	3.6	3	3.6	39	54.7	55	73.2
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
MK 38 - ILS SUPPORT								0.3		0.3		0.5		0.5		0.5		0.5				2.6
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST																						
<u>TOTAL PROCUREMENT</u>								2.5		2.5		3.9		4.0		4.1		4.1		54.7		75.8

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4						P-1 LINE ITEM NOMENCLATURE GUN MOUNT MODS SUBHEAD NO. A4E5 BLIN: 4217							
Program Element for Code B Items						Other Related Program Elements							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0
COST (In Millions)	91.8			82.3	20.0	8.4	47.1	83.4	84.0	67.8	45.8	0.0	530.6
SPARES COST (In Millions)	0.7			3.4	0.1	0.0	0.3	0.3	0.1	0.1	0.0	0.0	5.0
PROGRAM DESCRIPTION/JUSTIFICATION:													
E5001- MK 45 MOD 1&2: This element procures gun safety, reliability and shock hardening ORDALTs for 5" MK 45 gun mounts.													
E5002- MINOR CALIBER MODS: This element procures ORDALTs and miscellaneous equipment required to improve safety and reliability for the 25MM MK 38 Machine Gun System and all other minor caliber weapons much of which is outdated and difficult to support. It provides initial fill kits and replacement of surveyed and outdated minor caliber weapons for active ships. This element also procures MK 11 saluting mounts and related components.													
E5004- MK 45 MOD 4: This element procures modifications to upgrade MK45 gun mounts to the deployable Mod 4 configuration which includes shock requirements, fleet deployment configuration ECPs, and safety/reliability ORDALTs, as well as the backfit of handling/loading capability for extended range munitions on DDGs and land based training/test units.													
E5006- MK38 MOD 2 GUN: This element procures MK 38 Gun Mounts.													

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE February 2007
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4	P-1 LINE ITEM NOMENCLATURE GUN MOUNT MODS SUBHEAD NO. A4E5 BLIN: 4217	
<p>E5007- FORCE PROTECTION WEAPONS: Force Protection Weapons: This element procures Force Protection Weapons modifications for DDG 51. In order to provide measures for Anti-Terrorist/Force Protection (ATFP), weaponry modifications were implemented in DDG 51 Class Ships. Modifications included the addition of 25MM chain gun foundations, associated communications, and weapon and ammunition stowage.</p> <p>E5008 - MK 38 MOD 2 GUNS MOUNT ON KINGS BAY ESVS This element procures gun mounts to provide effective protection for the TRIDENT submarines while in transit.</p> <p>E5009 - PALLETIZED PROTECTION SYSTEMS (PPS) This element procures Palletized Protection Systems.</p> <p>E5010 - MK110 (57MM) NAVAL GUN This element procures 57mm guns and modifications. MK110 is a compact, lightweight, unmanned gun used in maritime security operations for ship self defense and warning/disabling fire.</p> <p>CONGRESSIONAL ADD FY06 Congressional Add \$7.0M for MK45 Mod 4 Gun upgrades included in Cost Code E5004. FY06 Congressional Add \$2.1M for Minor Caliber Gun included in Cost Code E5006. FY06 Congressional Add \$5.2M for SSBN Transit Protection System included in Cost Code E5008. FY07 Congressional Add \$3.8M for Minor Caliber Gun included in Cost Code E5006. FY07 Congressional Add \$7.8M for MK110 (57mm) Naval Gun included in E5010.</p>		

CLASSIFICATION:			UNCLASSIFIED												
EXHIBIT P-5 COST ANALYSIS						Weapon System						DATE February 2007			
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4						ID Code	P-1 LINE ITEM NOMENCLATURE GUN MOUNT MODS SUBHEAD NO. A4E5								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u>EQUIPMENT</u>														
E5001	<u>MK45 MODS 1&2</u> MK45 MODS 1 & 2 KITS		7,961	0	0.0	2,679	0	0.0	4,042	0	0.0	887	0	0.0	1,235
E5002	<u>MINOR CALIBER MODS</u> MINOR CALIBER MOD KITS		2,490	0	0.0	2,874	0	0.0	370	0	0.0	82	0	0.0	93
E5004	<u>MK45 MOD 4</u> MK45 MOD 4 KITS MK45 MOD 4 KITS-INSTALL/ILS/PRODUCTION		47,885	12	575.0	6,900	4	125.0	500	0	0.0	0	1	110.0	110
			1,500	0	0.0	1,402	0	0.0	1,176	0	0.0	350	0	0.0	288
E5006	<u>MK38 MOD 2 GUN</u> MK38 MOD 2 GUN KITS MK38 MOD 2 GUN INSTALL COST MK38 MOD 2 GUN - ENGINEERING CHG ORDERS MK38 MOD 2 GUN - ILS/TEST/PRODUCTION SUPPORT		13,640	63	585.9	36,910	6	710.0	4,260	0	0.0	0	0	0.0	0
			6,230	63	324.8	20,460	6	86.7	520	0	0.0	0	0	0.0	0
			4,810	0	0.0	3,590	0	0.0	63	0	0.0	0	0	0.0	0
			3,946	0	0.0	1,387	0	0.0	220	0	0.0	0	0	0.0	0
E5007	FORCE PROTECTION WEAPONS (ATFP)		3,348	0	0.0	990	0	0.0	1,005	0	0.0	0	0	0.0	0
E5010	<u>MK 110 (57MM) NAVAL GUN</u> LAND BASED ENGINEERING SITE		0	0	0.0	0	0	0.0	7,800	0	0.0	0	0	0.0	0
E5008	<u>STABILIZED MK 38 MOD 2 GUNS</u> MK 38 MOD 2 GUNS - ESVS		0	4	1,282.5	5,130	0	0.0	0	4	1,339.0	5,356	0	0.0	0

CLASSIFICATION:			UNCLASSIFIED												
EXHIBIT P-5 COST ANALYSIS (CONTINUATION)						Weapon System						DATE February 2007			
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4						ID Code	P-1 LINE ITEM NOMENCLATURE GUN MOUNT MODS SUBHEAD NO. A4E5								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2006			FY 2007			FY 2008			FY 2009		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
E5009	<u>PALLETIZED PROTECTION SYSTEMS</u>														
	PALLETIZED PROTECTION SYSTEMS		0	0	0.0	0	0	0.0	0	0	0.0	0	10	4,535.7	45,357
	PRE-PRODUCTION COSTS		0	0	0.0	0	0	0.0	0	0	0.0	1,690	0	0.0	0
	TOTAL EQUIPMENT		91,810			82,322			19,956			8,365			47,083
TOTAL			91,810			82,322			19,956			8,365			47,083
Comment: MK45 Mods 1 & 2 and Minor Caliber Mods - Various components and kits are procured for gun mount safety and reliability modifications. A specific kit quantity/cost is not applicable.															

CLASSIFICATION:		UNCLASSIFIED								
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2007	
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4					P-1 LINE ITEM NOMENCLATURE GUN MOUNT MODS BLIN: 4217				SUBHEAD A4E5	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2006										
E5004 MK45 MOD 4 MK45 MOD 4 KITS	12	575.0	NSWC PHD DET LOUISVILLE	N/A	FFP	BAE, LOUISVILLE KY	SEP-06	OCT-07	YES	
E5006 MK38 MOD 2 GUN MK38 MOD 2 GUN KITS	63	585.9	NSWC PHD DET LOUISVILLE	N/A	IDIQ FFP	BAE, LOUISVILLE KY	APR-06	OCT-06	YES	
MK38 MOD 2 GUN INSTALL COST	63	324.8	NSWC PHD DET LOUISVILLE	N/A		VARIOUS	OCT-06			
E5008 STABILIZED MK 38 MOD 2 GUNS MK 38 MOD 2 GUNS - ESVS	4	1,282.5	NAVSEA		OTHER*	BAE SYSTEMS, LOUISVILL KY	APR-06	FEB-07	YES	
FY 2007										
E5004 MK45 MOD 4 MK45 MOD 4 KITS	4	125.0	NSWC PHD DET LOUISVILLE	N/A	FFP	BAE, LOUISVILLE KY	APR-07	AUG-08	YES	
E5006 MK38 MOD 2 GUN MK38 MOD 2 GUN KITS	6	710.0	NAVSEA	N/A	IDIQ FFP	BAE, LOUISVILLE KY	APR-07	OCT-07	YES	
MK38 MOD 2 GUN INSTALL COST	6	86.7	NAVSEA	N/A		VARIOUS	OCT-07			
FY 2008										
E5008 STABILIZED MK 38 MOD 2 GUNS MK 38 MOD 2 GUNS - ESVS	4	1,339.0	NAVSEA		OTHER*	BAE SYSTEMS, LOUISVILLE K	APR-08	FEB-09	YES	
FY 2009										
E5004 MK45 MOD 4 MK45 MOD 4 KITS	1	110.0	NSWC PHD DET LOUISVILLE	N/A	FFP	BAE, LOUISVILLE KY	APR-09	AUG-10		
E5009 PALLETIZED PROTECTION SYSTEMS PALLETIZED PROTECTION SYSTEMS	10	4,535.7	SSP CRYSTAL CITY VA		C**	TBD	DEC-08	JUN-09		
Remarks: *Funding of these items are being procured for SSP by COMNAVSEA (PEO IWS3C) the central procurement agent. Funding is passed on a project directive and will be subsequently issued to BAE Systems on a contract that was originally competed.										

CLASSIFICATION:		UNCLASSIFIED									
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING (CONTINUATION)					Weapon System					DATE February 2007	
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4					P-1 LINE ITEM NOMENCLATURE GUN MOUNT MODS BLIN: 4217					SUBHEAD A4E5	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE	
** It will be a competitive award for 2 RDT&E funded prototypes in FY07 with contract options for procurement in FY08 and subsequent yearly quantities.											

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED E5008 STABILIZED MK 38 MOD 2 GUNS MK 38 MOD 2 GUNS - ESVS	TYPE MODIFICATION:	MODIFICATION TITLE: GUN MOUNT MODS
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DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																						
<u>RDT&E</u>																						
<u>PROCUREMENT</u>																						
MODIFICATION KITS																						
MODIFICATION KITS - UNIT COST																						
MODIFICATION NONRECURRING																						
EQUIPMENT			4	5.1			4	5.4													8	10.5
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST																						
<u>TOTAL PROCUREMENT</u>				5.1				5.4														10.5

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED E5009 PALLETIZED PROTECTION SYSTEMS PALLETIZED PROTECTION SYSTEMS	TYPE MODIFICATION:	MODIFICATION TITLE: GUN MOUNT MODS
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DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																						
<u>RDT&E</u>																						
<u>PROCUREMENT</u>																						
MODIFICATION KITS																						
MODIFICATION KITS - UNIT COST																						
MODIFICATION NONRECURRING																						
EQUIPMENT									10	45.4	10	44.3	7	31.2							27	120.9
EQUIPMENT NONRECURRING								1.7														1.7
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST																						
<u>TOTAL PROCUREMENT</u>								1.7		45.4		44.3		31.2								122.6

CLASSIFICATION: UNCLASSIFIED **February 2007**

EXHIBIT P-3A INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEM AFFECTED PALLETIZED PROTECTION SYSTEMS PALLETIZED PROTECTION SYSTEMS	MODIFICATION TITLE: GUN MOUNT MODS
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INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:	CONTRACTOR
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ADMINISTRATIVE LEADTIME:	12 Months	PRODUCTION LEADTIME:	6 Months
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CONTRACT DATES:		FY 2006:		FY 2007:		FY 2008:		FY 2009:	DEC-08
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DELIVERY DATES:		FY 2006:		FY 2007:		FY 2008:		FY 2009:	JUN-09
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(\$ in Millions)

COST	Prior Years		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	PRIOR YEARS																					
FY 2006 EQUIPMENT																						
FY 2007 EQUIPMENT																						
FY 2008 EQUIPMENT																						
FY 2009 EQUIPMENT																						
FY 2010 EQUIPMENT																						
FY 2011 EQUIPMENT																						
FY 2012 EQUIPMENT																						
FY 2013 EQUIPMENT																						
TO COMPLETE																						

INSTALLATION SCHEDULE

	FY 2005	FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 2013				TC	TOTAL			
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Remarks:

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4						P-1 LINE ITEM NOMENCLATURE LCS MODULE WEAPONS SUBHEAD NO. 11KJ BLIN: 4221							
Program Element for Code B Items						Other Related Program Elements							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity	0			0	0	0	2	10	12	8	8	0	40
COST (In Millions)	0.0			0.0	0.0	0.0	22.4	34.0	40.4	45.4	10.8	0.0	153.0
SPARES COST (In Millions)	0.0			0.0	0.0	0.0	0.2	0.5	0.2	0.0	0.0	0.0	0.9
PROGRAM DESCRIPTION/JUSTIFICATION:													
<p>Program provides mission capabilities in littoral mine warfare to enable the US Joint Force to operate in the littoral. Mine Warfare Mission Package (MIW) will provide the Joint force commander with the capability to conduct organic mine countermeasure (MCM) operations ranging from first response mine detection and avoidance, to neutralization and sweeping for littoral conditions that preclude hunting, enabling Joint operations to be conducted ahead of power projection forces with reduced need for escorts. This will open transit lanes and operating areas for naval forces. MCM operations will reduce the timeline for access to the contested littoral thereby providing options to the joint force commander. Additionally, LCS should have the capability to deploy distributed sensors that will enhance detection, classification, identification and targeting of enemy mines.</p>													
KJ001 - RAMICS													
<p>Rapid Airborne Mine Clearance System (RAMICS) MIW program (system within the MIW Mission Package) will satisfy the U.S. Navy's need for rapid mine clearance capability required to neutralize near-surface and surface (floating) moored sea mines. RAMICS will use geo-location data provided by other minehunting and mine reconnaissance systems, use a laser system to reacquire targets and to direct the fire of supercavitating projectiles that will render the mines inoperable. RAMICS includes the following major subsystems and components:</p> <ul style="list-style-type: none"> (a) Gun Subsystem (b) MK258 Mod 1 ammunition (c) Targeting Sensor Subsystem (d) Fire Control Subsystem (e) Software <p>The system will be deployed from the MH-60S helicopter and will provide organic airborne mine defense for Carrier Strike Groups (CSG) and Expeditionary Strike Groups (ESG). This capability will be of critical importance in littoral zones, confined straits, choke points, and the Amphibious Objective area (AOA).</p>													

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE February 2007
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4	P-1 LINE ITEM NOMENCLATURE LCS MODULE WEAPONS SUBHEAD NO. 11KJ BLIN: 4221	
<p>RAMICS procurements will be funded by: WPN for the RAMICS combat system. PANMC for RAMICS projectile ammunition program.</p> <p>KJ002 - NON LINE OF SITE (NLOS) MISSILES Initial shipfill allocation for LCS.</p> <p>KJ830 - PRODUCTION ENGINEERING U) KJ830 - Production Engineering - Provides production engineering in support of the above procurements. This includes conduct of first article tests, factory acceptance tests, and other production support efforts directly related to delivery of the hardware. In addition for Mission Module equipment, review all technical data packages prior to procurement and provide procurement instruction to the procuring activity in support of the Mission Modules unified procurement system.</p> <p>KJ840 - ACCEPTANCE T&E Test, inspect, and accept first articles and, on a 100% basis, equipment being procured for Mission Modules.</p>		

CLASSIFICATION:			UNCLASSIFIED													
EXHIBIT P-5 COST ANALYSIS						Weapon System						DATE February 2007				
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4						ID Code	P-1 LINE ITEM NOMENCLATURE LCS MODULE WEAPONS SUBHEAD NO. 11KJ									
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009				
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
	<u>EQUIPMENT</u> <u>Sponsor: N86 - SURFACE WARFARE</u>															
KJ001	<u>RAMICS</u>															
	RAMICS SYSTEMS		0	0	0.0	0	0	0.0	0	0	0.0	0	2	5,617.0	11,234	
	NON-RECURRING ENGINEERING		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	160	
	ENGINEERING CHANGE PROPOSALS		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	80	
	RECURRING ENGINEERING SUPPORT		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	40	
	ILS/PUB/TECH DATA		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	120	
	TRAINING EQUIPMENT		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1,439	
KJ002	NLOS MISSILES		0	0	0.0	0	0	0.0	0	0	0.0	0	35	223.0	7,805	
KJ830	PRODUCTION ENGINEERING		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	739	
KJ840	ACCEPTANCE T&E		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	790	
	N86 Subtotal		0			0			0			0			22,407	
	TOTAL EQUIPMENT		0			0			0			0			22,407	
TOTAL			0			0			0			0			22,407	

CLASSIFICATION:		UNCLASSIFIED								
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2007	
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4					P-1 LINE ITEM NOMENCLATURE LCS MODULE WEAPONS BLIN: 4221				SUBHEAD 11KJ	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2009										
KJ001 RAMICS RAMICS SYSTEMS	2	5,617.0	NSWC PC	FEB-08	SS/CPIF	NORTHROP GRUMMAN	OCT-08	AUG-09		
KJ002 NLOS MISSILES	35	223.0	DEPT OF THE ARMY	N/A	OPTION	RAYTHEON, AZ	DEC-08	DEC-09	YES	

BUDGET ITEM JUSTIFICATION SHEET	DATE: February 2007
P-40	

APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
Weapons Procurement, Navy BA 4 - Other Weapons	422200, PIONEER PROGRAM

Program Element for Code B Items:	Other Related Program Elements
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	Prior Years	ID Code	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Program
Quantity												
Cost (\$M)	31.618	A	4.937	16.428								52.983

The Pioneer Unmanned Aerial Vehicle (UAV) provides near real-time reconnaissance, surveillance, target acquisition, combat assessment and battlefield management within Line Of Sight of a Ground Control Station (GCS) in limited weather, both day and night. Deployments around the world have supported numerous joint military operations and contingencies, including Bosnia Herzegovina, Somalia, the Adriatic, Persian Gulf operations, Desert Shield and Desert Storm, and Operation Iraqi Freedom (OIF) I, II and III.

Each operational system consists of: five air vehicles that have electro-optical (EO) and infrared (IR) payloads; two GCS; one portable control station; one tracking and communications unit; and one to four remote receiving stations.

* FY 2006 includes \$3.0M in Title IX funding for the procurement of additional engines and MIAG/MAIS/Data Links.

* FY 2007 includes \$9.4M in Title IX funding for engines, Ground Control Station / Ground Data Terminal, Tactical Common Data Links (TCDL), and Unit Support Kits.

NOTE: Pioneer program is being discontinued, but will be sustained until FY 2008. The Marine Corps Tactical Unmanned Aerial System (MCTUAS) is the replacement system. FY 2008 - FY 2013 funding has been moved to LI 422700 (MCTUAS) A request to reprogram the Pioneer FY 2007 funding is being submitted to Congress.

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4						P-1 LINE ITEM NOMENCLATURE CRUISER MODERNIZATION WEAPONS SUBHEAD NO. 14CC BLIN: 4223							
Program Element for Code B Items						Other Related Program Elements 0604307N, 0604567N, 0204221N, 0204162N							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity	0			0	0	0	0	0	0	0	0	0	0
COST (In Millions)	9.1			5.4	18.4	23.6	45.5	52.8	54.6	55.6	56.7	43.3	365.0
SPARES COST (In Millions)	0.0			0.2	0.4	0.2	0.5	0.6	0.4	0.5	0.2	0.0	3.0
PROGRAM DESCRIPTION/JUSTIFICATION:													
Modernized CG47 Class ships will to operate independently or as units of Carrier Battle Groups and Surface Action Groups, in support of Underway Replenishment Groups and the Marine Amphibious Task Forces in multithreat environments that include air, surface and subsurface threats. These ships will respond to Low Intensity Conflict/Coastal and Littoral Offshore Warfare (LIC/CALOW) scenarios, Joint Missions, as well as open ocean conflicts, providing and augmenting power projection and forward presence. In addition, these ships will conduct Air Dominance, Land Attack and Force Protection missions. The first CG Modernization (CGM) availability starts in FY 2008 and two availabilities start in FY 2009.													
CC001 - CIWS 1B UPGRADE													
CC001- Provides Close In Weapon System (CIWS-1B) Upgrade for CG Modernization Availability including equipment procurement, non-recurring and recurring equipment engineering, equipment integration, and Integrated Logistics Support (ILS).													
CC002 - MK45 GUN MOUNTS													
CC002- Provides MK 45 Gun Mounts for all CG Modernization Availabilities including equipment procurement, non-recurring and recurring equipment engineering, equipment integration, and ILS. The MK 45 Program features a rotatable pool of modified assets from decommissioned Spruance Class destroyers as well as new MK 45 compatibility kits that will be applied to the CG Modernization Program. Use of these assets to fill a portion of the requirement lowers the procurement unit costs for the years affected.													

CLASSIFICATION:			UNCLASSIFIED												
EXHIBIT P-5 COST ANALYSIS						Weapon System CG47 CLASS CRUISER MODERNIZATION						DATE February 2007			
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4						ID Code	P-1 LINE ITEM NOMENCLATURE CRUISER MODERNIZATION WEAPONS SUBHEAD NO. 14CC								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2006			FY 2007			FY 2008			FY 2009		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u>EQUIPMENT</u>														
CC001	CIWS 1B UPGRADE		9,086	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0
CC002	MK45 GUN MOUNTS		0	1	5,355.0	5,355	2	9,198.0	18,396	2	11,780.5	23,561	3	15,178.3	45,535
	TOTAL EQUIPMENT		9,086			5,355			18,396			23,561			45,535
TOTAL			9,086			5,355			18,396			23,561			45,535

CLASSIFICATION:		UNCLASSIFIED								
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System CG47 CLASS CRUISER MODERNIZATION				DATE February 2007	
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4					P-1 LINE ITEM NOMENCLATURE CRUISER MODERNIZATION WEAPONS BLIN: 4223				SUBHEAD 14CC	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2006										
CC002 MK45 GUN MOUNTS	1	5,355.0	NAVSEA	NOV-05	FFP	UDLP, KY/MN	APR-06	MAR-08	YES	
FY 2007										
CC002 MK45 GUN MOUNTS	2	9,198.0	NAVSEA	NOV-06	FFP	UDLP, KY/MN	MAR-07	DEC-08	YES	
FY 2008										
CC002 MK45 GUN MOUNTS	2	11,780.5	NAVSEA	NOV-07	FFP	UDLP, KY/MN	DEC-07	DEC-09	YES	
FY 2009										
CC002 MK45 GUN MOUNTS	3	15,178.3	NAVSEA	OCT-08	FFP	UDLP, KY/MN	NOV-08	NOV-10	YES	

EXHIBIT P-3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED CC002 MK45 GUN MOUNTS	TYPE MODIFICATION: SHIPALT	MODIFICATION TITLE: CRUISER MODERNIZATION WEAPONS
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DESCRIPTION/JUSTIFICATION:

Provides upgraded 5/62 gun mounts to meet Cruiser Modernization requirements.
Installation of MK45 Gun Mounts will be funded with OPN (BLI 096000) as an integrated system installation along with gun fire control and other MK34 Gun Weapons Systems components that are funded in OPN.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

COST	Prior Years		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<u>FINANCIAL PLAN(IN MILLIONS)</u>																						
<u>RDT&E</u>																						
<u>PROCUREMENT</u>																						
MODIFICATION KITS																						
MODIFICATION KITS - UNIT COST																						
MODIFICATION NONRECURRING																						
EQUIPMENT			1	5.4	2	18.4	2	23.6	3	45.5	3	52.8	3	54.6	3	55.6	3	56.7	2	43.3	22	355.9
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST																						
<u>TOTAL PROCUREMENT</u>				5.4		18.4		23.6		45.5		52.8		54.6		55.6		56.7		43.3		355.9

CLASSIFICATION:		UNCLASSIFIED											
Exhibit P-40, BUDGET ITEM JUSTIFICATION											DATE February 2007		
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4						P-1 LINE ITEM NOMENCLATURE AIRBORNE MINE NEUTRALIZATION SYSTEMS SUBHEAD NO. 74AM BLIN: 4225							
Program Element for Code B Items						Other Related Program Elements 0204302N							
	Prior Years	ID Code		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total
Quantity				0	0	0	0	0	0	0	0	0	0
COST (In Millions)	0.7			1.5	3.1	6.6	22.0	47.6	38.0	91.3	96.6	CONT	306.7
SPARES COST (In Millions)				0.1	0.1	0.4	1.1	1.7	0.7	0.0	0.0	CONT	4.1
PROGRAM DESCRIPTION/JUSTIFICATION:													
<p>Airborne Mine Countermeasures (AMCM) Equipment is currently used by MH-53E helicopters to counter the threat of sea mines. The MH-60S helicopter will be adapted for the AMCM mission in support of the development of an Organic Fleet AMCM program. The equipment is divided into two broad categories -- minesweeping and minehunting. (1) Minesweeping is performed by mechanical or influence sweeps. In mechanical sweeping, the mine mooring is severed by the sweep gear allowing the mine to float to the surface where it is destroyed. In influence sweeping, a magnetic or acoustic field which simulates the magnetic/acoustic signature of a ship is introduced into the water. This field causes the mine mechanism to actuate. (2) In mine hunting, the object is to actually locate and classify mine like objects (usually by means of high resolution sonar) and mark or neutralize mines using explosive devices. AMCM squadrons currently have mechanical, magnetic, and acoustic sweeping capabilities, and mine surveillance and marking capabilities. Their mission is to locate, classify and neutralize moored and bottom mines.</p> <p>Airborne Mine Neutralization System (AMNS)</p> <p>AMNS will provide the MH-60S helicopter with the capability to neutralize bottom and moored mines using an expendable mine neutralization device. The AMNS is being tested on the MH-53E helicopter to prove out the neutralization effectiveness. The system will be deployed from the MH-60S helicopter as part of the Littoral Combat Ship (LCS) Mine Warfare Mission Module. This capability will be of critical importance in littoral zones, confined straits, choke points, and the Amphibious Objective Area (AOA).</p> <p>AMNS procurements will be funded by: OPN for the AMNS combat system. OPN/WPN for AMNS neutralizer.</p> <p>Rapid Airborne Mine Clearance System (RAMICS) MIW program will satisfy the U.S. Navy's need for rapid mine clearance capability required to neutralize near-surface and surface (floating) moored sea mines. RAMICS will use geo-location data provided by other minehunting and mine reconnaissance systems, use a laser system to reacquire targets and to direct the fire of supercavitating projectiles that will render the mines inoperable. RAMICS includes the following major subsystems and components: (a)Gun Subsystem; (b) MK258 Mod 1 ammunition; (c) Targeting Sensor Subsystem; (d) Fire Control Subsystem; (e) Software</p>													

CLASSIFICATION:	UNCLASSIFIED	
Exhibit P-40, BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE February 2007
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4	P-1 LINE ITEM NOMENCLATURE AIRBORNE MINE NEUTRALIZATION SYSTEMS SUBHEAD NO. 74AM BLIN: 4225	
<p>The system will be deployed from the MH-60S helicopter and will provide organic airborne mine defense as part of Littoral Combat Ship (LCS) Mine Warfare Mission Module. This capability will be of critical importance in littoral zones, confined straits, choke points, and the Amphibious Objective area (AOA).</p> <p>RAMICS procurements (begins in FY09) will be funded by: WPN for the RAMICS combat system and PANMC for RAMICS projectile ammunition program.</p> <p>Expendable Mine Neutralization System (EMNS) (procurement begins in FY08) is a mine identification and neutralization system for support of mine clearance operations from the MCM-1 Avenger Class ship(s) for both bottom and moored mines. It will replace the aging and maintenance intensive AN/SLQ-48 Mine Neutralization System (MNS). EMNS will provide the MCM ships with improved reconnaissance capability, positive identification of the mine threat, reduced neutralization mission times, and reduced maintenance in both time and required spares. Based on the approved Common Neutralizer strategy, the Archerfish neutralizer will be used on both AMNS (MH-60S) and EMNS (MCM-1 Avenger Class Ships).</p> <p>The Countermine System (CMS) uses a precision guided, stand-off munition to neutralize mines deployed within the surface and beach zones. The CMS attacks surface laid and buried mines through a controlled dispense of thousands of countermine penetrators. These penetrators are designed to penetrate mines. The penetrators will either consume the explosive fill or cause a detonation of the mine. The CMS is programmed prior to launch and is guided to the desired aim-point using the Joint Direct Attack Munition (JDAM) guidance kit. The CMS munition will be capable of delivery by Air Force (AF) and Navy (USN) tactical aircraft (TACAIR).</p>		

CLASSIFICATION:			UNCLASSIFIED														
EXHIBIT P-5 COST ANALYSIS							Weapon System						DATE February 2007				
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4							ID Code B	P-1 LINE ITEM NOMENCLATURE AIRBORNE MINE NEUTRALIZATION SYSTEMS SUBHEAD NO. 74AM									
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS														
			Prior Years	FY 2006		FY 2007			FY 2008			FY 2009					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
	<u>EQUIPMENT</u>																
AM065	UNIT COST - AMNS NEUTRALIZER MH-53E	A	720	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0		
AM065	UNIT COST - AMNS NEUTRALIZER MH60S	B	0	30	49.8	1,495	65	48.3	3,138	70	50.5	3,534	115	49.7	5,716		
AM077	<u>HARD WARE UNIT COST - RAMICS</u>																
	HARD WARE UNIT COST - RAMICS		0	0	0.0	0	0	0.0	0	0	0.0	0	2	5,617.0	11,234		
	NON-RECURRING ENGINEERING		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	261		
	RECURRING ENGINEERING SUPPORT		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	60		
	ENGINEERING CHANGE PROPOSALS		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	100		
	ILS/PUBS/TECH DATA		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	140		
	TRAINING EQUIPMENT		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1,440		
AM080	UNIT COST - EMNS NEUTRALIZER		0	0	0.0	0	0	0.0	0	60	50.5	3,032	60	50.5	3,030		
AM081	<u>COUNTERMINE SYSTEM (CMS)</u>																
	TOTAL EQUIPMENT		720			1,495			3,138			6,566			21,981		
TOTAL			720			1,495			3,138			6,566			21,981		

CLASSIFICATION:		UNCLASSIFIED								
Exhibit P5A, PROCUREMENT HISTORY AND PLANNING					Weapon System				DATE February 2007	
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA 4					P-1 LINE ITEM NOMENCLATURE AIRBORNE MINE NEUTRALIZATION SYSTEMS BLIN: 4225				SUBHEAD 74AM	
COST ELEMENT FISCAL YEAR	Quantity	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPEC AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2006										
AM065 UNIT COST - AMNS NEUTRALIZER MH60S	30	49.8	NSWC PANAMA CITY	OCT-06	SS/FP	BAE SYSTEMS	JUN-07	JUN-08		
FY 2007										
AM065 UNIT COST - AMNS NEUTRALIZER MH60S	65	48.3	NSWC PANAMA CITY	OCT-06	SS/FP	BAE SYSTEMS	JUN-07	JUN-08		
FY 2008										
AM065 UNIT COST - AMNS NEUTRALIZER MH60S	70	50.5	NSWC PANAMA CITY	FEB-07	OPTION	BAE SYSTEMS	OCT-07	OCT-08		
AM080 UNIT COST - EMNS NEUTRALIZER	60	50.5	NSWC PANAMA CITY	SEP-07	OPTION	BAE SYSTEMS	MAY-08	MAY-09		
FY 2009										
AM065 UNIT COST - AMNS NEUTRALIZER MH60S	115	49.7	NSWC PANAMA CITY	FEB-08	OPTION	BAE SYSTEMS	OCT-08	OCT-09		
AM077 HARD WARE UNIT COST - RAMICS HARD WARE UNIT COST - RAMICS	2	5,617.0	NSWC PANAMA CITY	FEB-08	SS/CPIF	NORTHROP GRUMMAN	OCT-08	AUG-09		
AM080 UNIT COST - EMNS NEUTRALIZER	60	50.5	NSWC PANAMA CITY	FEB-08	OPTION	BAE SYSTEMS	OCT-08	OCT-09		

CLASSIFICATION:

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET											DATE:		
P-40											February 2007		
APPROPRIATION/BUDGET ACTIVITY Weapons Procurement, Navy/ B.A. 4							P-1 ITEM NOMENCLATURE 422700, Marine Corps Tactical Unmanned Aerial System (MCTUAS)						
Program Element for Code B Items: 0305204N							Other Related Program Elements						
	Prior Years	ID Code	FY 2006	FY 2007	FY 2008	FY2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Program	
QUANTITY		B			5	1						6	
Net P-1 Cost (\$M)		B			\$90.259	\$20.885	\$10.584	\$5.826	\$5.872	\$5.919		\$139.345	
Advance Proc (\$M)		B											
Wpn Sys Cost (\$M)		B			\$90.259	\$20.885	\$10.584	\$5.826	\$5.872	\$5.919		\$139.345	
Initial Spares (\$M)		B											
Proc Cost (\$M)		B			\$90.259	\$20.885	\$10.584	\$5.826	\$5.872	\$5.919		\$139.345	
Unit Cost (\$M)		B			\$18.052	\$20.885							

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:
 The Marine Corps Tactical Unmanned Aerial System (MCTUAS) provides dedicated Reconnaissance, Surveillance and Target Acquisition (RSTA), Intelligence, Battle Damage Assessment (BDA) and Force Protection. The MCTUAS provides critical battlefield intelligence and targeting information in the rapid cycle time required for success at the tactical level. MCTUAS consists of four air vehicles, (each configured with an EO/IR sensor payload), launcher, ground control, attrition engine, and support equipment, including: power generation, communications equipment, automated recovery equipment, remote video terminals, vehicle mounted shelters, and High Mobility Multipurpose Wheeled Vehicles with trailer(s). Each system is equipped with one Maintenance Section Multifunctional Vehicle and is supported by a Mobile Maintenance facility. These systems will be procured through the Army on their Shadow TUAS production contract. The Marine Corps configuration will match the Army's to ensure combat units have maximum interoperability, maintainability, and combat effectiveness.

BASIS FOR FY2008 REQUEST:
 FY08 fully funds five MCTUAS systems and associated support.

BASIS FOR FY2009 REQUEST:
 FY09 fully funds one MCTUAS system and associated support.

MCTUAS is a New Start program.

CLASSIFICATION:
UNCLASSIFIED

Exhibit P-5 Cost Analysis		Weapon System MCTUAS						DATE: February 2007					
APPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT,NAVY/BA 4		ID Code B	P-1 ITEM NOMENCLATURE 422700 Marine Corps Tactical Unmanned Aircraft System (MCTUAS)										
Dollars in Millions													
Cost	Element of Cost	FY 2006			FY 2007			FY 2008			FY 2009		
		QTY:	Unit Cost	Total Cost	QTY:	Unit Cost	Total Cost	QTY:	Unit Cost	Total Cost	QTY:	Unit Cost	Total Cost
	AIR VEHICLE SYSTEM							5	7.237	36.185	1	7.385	7.385
	ATTRITION ENGINES/ACCESS									3.650			0.745
	CFE MISSION ELEC												
	GFE ELECTRONICS												
	ARMAMENT												
	OTHER GFE									9.554			1.950
	REC FLYAWAY ECO									6.965			1.823
	REC FLYAWAY COST									56.354			11.903
	NON-RECURRING ANCILLARY EQUIP										17.017		3.284
	TOTAL FLYAWAY									73.371			15.187
	AIRFRAME PGSE												
	ENGINE PGSE												
	AVIONICS PGSE												
	PEC TRNG EQ/PTS									5.901			1.822
	PUBS / TECH DATA									3.078			0.698
	OTHER ILS									4.055			1.652
	PROD ENG SUPT									3.854			1.526
	TOTAL SUPPORT COST									16.888			5.698
	GROSS P-1 COST									90.259			20.885
	ADV PROC CREDIT												
	NET P-1 COST									90.259			20.885
	ADV PROCUREMENT												
	WEAPON SYS COST									90.259			20.885
	INITIAL SPARES												
	PROCUREMENT COST									90.259			20.885

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CLASSIFICATION:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System MCTUAS		A. DATE February 2007			
B. APPROPRIATION/BUDGET ACTIVITY Weapons Procurement, Navy/ B.A. 4					C. P-1 ITEM NOMENCLATURE 422700, Marine Corps Tactical UAS (MCTUAS)				SUBHEAD	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (M)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	TECH DATA AVAILABLE NOW?	DATE REVISIONS AVAILABLE
FY08 SYSTEM	5	7.237	AMCOM Huntsville, AL	N/A	SS/FPIF	AAI Hunt Valley, MD	Dec 07	Dec 08	Yes	N/A
FY09 SYSTEM	1	7.385	AMCOM Huntsville, AL	N/A	SS/FPIF	AAI Hunt Valley, MD	Dec 08	Dec 09	Yes	N/A
D. REMARKS										

