

CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET P-40						DATE: FEBRUARY 2004						
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA4						P-1 ITEM NOMENCLATURE SHIP SELF DEFENSE SYSTEM (SSDS) / 5239						
Program Element for Code B Items:						Other Related Program Elements P.E. 0604755N						
	FY2002 And Prior	ID Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TBD	To Complete	Total
QUANTITY	15	A	4	3	1	0	0	0	1	0	10	34
COST (In Millions)	\$175.3	A	\$45.3	\$57.7	\$42.1	\$15.6	\$7.4	\$8.1	\$23.7	\$0.0	\$308.8	\$684.1
SPARES COST (In Millions)	\$7.9	A	\$5.5	\$1.6	\$0.0	\$1.0	\$0.7	\$1.0	\$0.3	\$0.0	Continue	Continue
<p>SHIP SELF DEFENSE SYSTEM (SSDS) - Funds are requested to procure an evolutionary SSDS for selected ship classes. The SSDS is a coordinated engineering approach to improve ship self defense utilizing existing and planned defensive systems in Navy ships. The program coordinates the efforts of diverse acquisition programs that are in varying stages of programmatic maturity. A multi-phased acquisition program has been planned. The AN/SYQ-17 Rapid Anti-Ship Missile Integrated Defense System program, or SSDS MK 0, is being followed by SSDS MK1 program to integrate sensors and automate engagement sequences of hardkill and softkill systems. The next phase is identified as SSDS MK2.</p> <p>SSDS MK 0 uses ruggedized computer workstations and an ETHERNET LAN and provides decision support to weapons systems operators and managers using data from AN/SLQ-32 and CIWS radar. SSDS MK 0 is designated for use on DD 963/FFG 7 class ships. During FY01-04, implementation of Commercial Off the Shelf technology refresh upgrade is planned for the FFG 7 class ships as Field Change Kits.</p> <p>SSDS MK 1 is the second phase of acquisition of improved ship self defense capabilities against Anti-Ship Cruise Missiles (ASCM) for LSD 41/49 class ships. It integrates several existing stand-alone sensor and Anti-Air Warfare weapons systems to provide an automated detect-to-engage capability against low flying, high speed ASCMs with low radar cross sections in the littoral environment. System design emphasizes physically distributed non-developmental items, commercial standards, Next Generation Computer Resources, and computer program reuse in an open architecture computer network. It includes a command table that uses components of the Navy's AN/UYQ-70 standard display for human-machine interface, commercially available local area network access units and circuit cards, and commercially available fiber optic cabling. SSDS MK1 successfully completed Operational Evaluation in June 1997. SSDS received Milestone III Approval for Full Rate Production (Mar 98) and authority to continue integration with Advanced Combat Direction System (ACDS) and Cooperative Engagement Capability (CEC) on CV(N), LPD-17, and LHD ship classes.</p> <p>SSDS MK 2 development will adopt the functionality of ACDS and combine the SSDS MK1 capability with weapon and sensor elements. In addition, MK2 will fully integrate with CEC to improve joint interoperability for Aircraft Carriers and Amphibious Ships. It provides enhanced capabilities for Force Protection against air, surface, and subsurface threats using both own-ship and remote data in support of the AAW Capstone Requirements. MK2 will increase operational capabilities, improve combat readiness and Battle Group Interoperability, and promote standardization both within installed ship classes and with AEGIS to facilitate transition to Common Command and Decision. SSDS MK 2 also equips all backfit LHDs and CV(N)s with an upgraded Combat System Display Suite which includes AN/UYQ-70s, Automatic Status Boards (ASTABS), Remote ASTAB Controllers, Advanced Sensor Distribution System and a backup Sensor Integration And Control Interface Terminal. A shore based SSDS MK 2 equipment suite and a full combat system suite is installed at the Ship Combat System Center (SCSC). This facility, under the sponsorship of PEO(IWS), is established at Wallops Island to provide a high fidelity combat system engineering development and integration test site in support of the combat systems of the CVN/LPD-17 and future ship classes. In FY03/FY04 procurement funds support the CVN 68, LHD 7, Self Defense Test Ship (SDTS), CV 67, and CVN 74 ships, of which three are ACDS Block 1 Ships and require immediate replacement. In FY05 procure CVN 75, FY06-FY08 will conduct COTS Tech Refresh to previously installed baselines and in FY09 procure the CVN 73, reducing the number of antiquated systems deployed on our carriers. Emergency Response Fund, Defense funding.</p>												

P-1 SHOPPING LIST 106

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WEAPONS SYSTEM COST ANALYSIS P-5				Weapon System						DATE: FEBRUARY 2004						
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy/BA4				ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD											
				A	SHIP SELF DEFENSE SYSTEM (SSDS) A4UQ / 5239											
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			FY2002 And Prior	FY 2003			FY 2004			FY 2005						
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
	SPONSOR N86															
	EQUIPMENT	A														
UQ001/8	SSDS Full Combat System Suite															
	LSD		47,863	0	0	0	0	0	0	0	0	0	0	0	0	0
	LHD		0	1	9,489	9,489	0	0	0	0	0	0	0	0	0	0
	CV(N)		6,106	1	4,859	4,859	2	16,160	32,320	1	16,681	16,681				
	SHOREBASED		20,219	2	4,593	9,185	1	15,121	15,121	0	0	0				
	SUPPORT EQUIPMENT		14,925	0	0	0	0	0	0	0	0	0				
UQ002	SSDS PRODUCTION SUPPORT		26,242			4,419			2,366			2,408				
UQ003	SSDS ECP		3,004			220			0			0				
UQ004	SSDS TRAINING		9,428			3,182			528			586				
UQ005	SSDS COTS REPLACEMENT		5,204			9,219			2,434			851				
UQ008	COMBAT SYSTEM DISPLAY SUITE		0			534			0			0				
	INSTALL															
UQ51N	SSDS Equipment Install (FMP)		32,635			905			4,169			15,264				
UQ6IN	EQUIPMENT INSTALL (NON-FMP)		4,697			3,326			720			6,340				
	* Includes FY 02 Cong. Add for NULKA Decoys		5000			0										
			175,323	4		45,338	3		57,658	1		42,130				

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE FEBRUARY 2004			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy/BA4					C. P-1 ITEM NOMENCLATURE SHIP SELF DEFENSE SYSTEM (SSDS) / 5239					SUBHEAD A4UQ	
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	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE	
FISCAL YEAR (03)			NAVSEA	01/03	FFP / CPAF	RAYTHEON 8680 Balboa Avenue San Diego CA 92123	5/03	26 mos (R3)	YES	N/A	
LHD 7 (UQ001/8)	1	9,489	(R1)					12 mos			
CVN 68 (UQ001/8)	1	4,859	(R2)					12 mos			
SHORE (UQ001/8)	2	4,593			FFP	LOCKHEED MARTIN MISC. VENDORS	VARIOUS	VARIOUS	YES	N/A	
FISCAL YEAR (04)			NAVSEA	10/03		RAYTHEON 8680 Balboa Avenue San Diego CA 92123	01/04	12 mos. after award	YES	N/A	
Self Defense Test Ship (SDTS) (UQ001)	1	15,121	NAVSEA								
CVN (UQ001)	2	16,160	NAVSEA		FFP	LOCKHEED MARTIN	VARIOUS	VARIOUS	YES	N/A	
FISCAL YEAR (05)			NAVSEA	10/04	FFP	RAYTHEON 8680 Balboa Avenue San Diego CA 92123	01/05	12 mos. after award	YES	N/A	
CVN (UQ001)	1	16,681	NAVSEA		FFP	LOCKHEED MARTIN	VARIOUS	VARIOUS	YES	N/A	
			NAVSEA	N/A							

D. REMARKS

Overall Note: Government Furnished Equipment (GFE) is included with unit cost above.
 Remark 1: Unit price only reflects a partial SSDS MK 2 equipment suite; AN/UYQ-70s will only require upgrade kits.
 Remark 2: Unit price only reflects a partial SSDS MK 2 equipment suite; two remaining multi-LAU cabinets to procure versus six, and display suite ECPs.
 Remark 3: Equipment will be sent to Raytheon Lab FY 04 then delivered to Ship FY 07.

P3A		INDIVIDUAL MODIFICATION										FEBRUARY 2004										
MODELS OF SYSTEM AFFECTED:		SHIP SELF DEFENSE SYSTEM (SSDS)					TYPE MODIFICATION: Ship Self Defense System MK 2					MODIFICATION TITLE:										
DESCRIPTION/JUSTIFICATION:																						
Implements an evolutionary acquisition of improved ship self defense capabilities against Anti-Ship Cruise Missiles for selected non-AEGIS ships by integrating existing programmed Anti-Air Warfare stand alone systems. It provides an automated quick reaction and multi-target engagement capability emphasizing performance in the littoral environment. Integration focuses on coordinating existing sensor information, providing threat identification and evaluation, assessing defensive readiness, and recommending optimized defensive tactical response to counter single and multiple Anti-Ship Cruise Missile attacks.																						
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Milestone III decision approved 5 March 1998																						
	FY 2002 & Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TBD		IC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
<i>RDT&E</i>	0	306.2	0	51.3	0	36.6	0	45.7	0	11.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	450.8
<i>PROCUREMENT</i>	15.0	89.2	4.0	23.5	3	47.4	1	16.7	0	0.0	0	0.0	0	0.0	1	17.9	0	0.0	10	150.6	34	345.3
INSTALLATION KITS																					0	0.0
INSTALLATION KITS NONRECURRING																		0	0.0	0	0.0	0.0
EQUIPMENT	11	54.1	2	14.3	2	32.3	1	16.7	0	0.0	0	0.0	0	0.0	1	17.9	0	0.0	9	146.1	26	281.4
EQUIPMENT NONRECURRING																		0	0.0	0	0.0	0.0
ENGINEERING CHANGE ORDERS																		0	0.0	0	0.0	0.0
DATA																		0	0.0	0	0.0	0.0
TRAINING EQUIPMENT	2	12.0	1	2.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	4.5	4	18.7
SUPPORT EQUIPMENT	2	23.1	1	6.9	1	15.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	45.2
OTHER (Production Support)		26.3		4.4		2.4		2.4		1.0		1.0		1.0		2.6	0	0.0	0	25.0	0	66.0
OTHER (ECP)		3.0		0.2		0.0		0.0		0.0		0.0		0.0		0.0	0	0.0	0	0.0	0	3.2
OTHER (Training)		9.4		3.2		0.5		0.6		0.0		0.0		0.0		0.6	0	0.0	0	0.0	0	14.3
OTHER (COTS Replacement)		5.2		9.2		2.4		0.9		6.0		6.4		7.1		2.6	0	0.0	0	50.0	0	89.8
OTHER (Combat System Display Suite)				0.5														0	0.0	0	0.5	0.5
OTHER (Congressional Add for NULKA)		5.0		0.0														0	0.0	0	5.0	5.0
TOTAL PROCUREMENT		138.1		41.1		52.8		20.5		7.0		7.4		8.1		23.7		0.0	0	225.5	0	524.2
INSTALL COST*	13	37.3	2	4.2	3	4.9	3	21.6	2	8.6	0	0.0	0	0.0	0	0.0	0	0.0	11	83.3	34	159.9
TOTAL PROGRAM COST	15	175.4	4	45.3	3	57.7	1	42.1	0	15.6	0	7.4	0	8.1	1	23.7	0	0.0	10	308.8	34	684.1

* Includes FMP, Planning, and Non-FMP Installation

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P3A (Continued) INDIVIDUAL MODIFICATION (Continued) FEBRUARY 2004

MODELS OF SYSTEMS AFFECTED: SHIP SELF DEFENSE SYSTEM (SSDS) MODIFICATION TITLE: _____

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Alteration Installation Team (AIT)

ADMINISTRATIVE LEADTIME: 2 months PRODUCTION LEADTIME: 12 Months

CONTRACT DATES: FY 2003: 10/02 - 2/03 FY 2004: 10/03 - 02/04 FY 2005: 10/04 - 02/05

DELIVERY DATE: FY 2003: 2/03 - 12/03 FY 2004: 2/04 - 12/05 FY 2005: 2/05 - 12/06

(\$ in Millions)

Cost:	Prior Years		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS	13	36.8		0.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	13	37.3	
FY 2002 EQUIPMENT					2	3.3								0.0		0.0		0.0		0.0	2	3.3	
FY 2003 EQUIPMENT					0	0.9	2	0.7			1	2.8	1	0.0								4	4.4
FY 2004 EQUIPMENT								4.2	3	19.0												3	23.2
FY 2005 EQUIPMENT							0		0	2.6	1	5.9										1	8.5
FY 2006 EQUIPMENT											0	0.0	0	0.0								0	0.0
FY 2007 EQUIPMENT													0	0.0	0	0.0						0	0.0
FY 2008 EQUIPMENT															0	0.0	0	0.0				0	0.0
FY 2009 EQUIPMENT																	0	0.0	1	7.5	1	7.5	
TO COMPLETE																			10	75.8	34	159.9	

INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				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										
IN	13	2	0	0	0	1	1	0	0	0	1	2	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	34
OUT	13	0	0	2	0	0	0	2	0	0	0	0	0	0	2	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	11	34

First LHD (LHD 7) unit will be sent to Raytheon Lab for concurrent development, then availability for installation is in FY07.