#### **CLASSIFICATION:**

EXHIBIT R-2, RDT&E Budget Item Justification						DATE: FEBRUARY 2006					
APPROPRIATION/BUDGET ACTIVITY  RESEARCH DEVELOPMENT TEST & EVALUA	R-1 ITEM NOMENCLATURE 0603755N/SHIP SELF DEFENSE										
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011				
Total PE Cost	13.240	9.447	8.897	11.392	12.579	13.678	13.727				
2133/QRCC/RAWG	3.577	3.488	3.491	3.555	3.564	3.670	3.715				
2184 Force AAW Coord. Tech. (FACT)	9.663	5.959	1.989	2.005	3.006	10.008	10.012				
3160 Ocean Surveillance	0.000	0.000	3.417	5.832	6.009	0.000	0.000				

#### A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This program incorporates efforts dedicated to the enhancement of ship defense against Anti-Air Warfare (AAW) and other evolving threats. Its primary focus is on the development of technologies, systems, and procedures necessary to defeat the evolving Anti-Ship Cruise Missile (ASCM) threat and then expands to allow for application of these technologies in other warfighting areas. These projects focus on ship defense improvements through the development of advanced concepts and capabilities that will enhance both defense in depth of ships in a force and self defense of individual ships in a littoral war-fighting environment. Quick Reaction Combat Capability (QRCC), Project 2133, provides advanced concepts and technology developments for the multi-sensor integration of ship detection equipment, integration and coordination of ship self defense weapons, and coordination of hardkill and softkill assets to improve individual ship self defense capabilities against the ASCM threat. The Requirements and Analysis Working Group (RAWG) provides independent analysis for a variety of combat system trade-offs, ship class performance studies, and force protection strategic plan development. Force Anti-Air Warfare Coordination Technology (FACT), Project 2184, demonstrates AAW concepts and capabilities that will enhance the AAW warfighting ability of ships and aircraft and enable the coupling of the Force into a single, distributed weapon system through more effective use of tactical data, and force sensors and weapons. During FY06, the Innovation Team will begin to expand the offensive counter air (OCA) capabilities developed for the Joint Targeting Attack and Assessment Capability (JTAAC) utilizing electro-optical (EO) and infrared (IR) sensors to include other sensors. During FY07-FY09, under the Ocean Surveillance Initiative, Project 3160, the Innovation Team will continue leveraging their expertise in resolving complex warfighter issues as well as the end to end capability realized in previous products to develop a prototy

### **CLASSIFICATION:**

# **UNCLASSIFIED**

EXHIBIT R-2a, RDT&E Project Justification	DATE: <b>FEBRUARY 2006</b>										
APPROPRIATION/BUDGET ACTIVITY	APPROPRIATION/BUDGET ACTIVITY PROJECT NUMBER AND NAME										
RDT&E, N / BA-4	+	on Combat Capabil	lity/Req and Analys	is W/G							
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011				
Project Cost	3.577	3.488	3.491	3.555	3.564	3.670	3.715				
RDT&E Articles Qty											

### A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Quick Reaction Combat Capability (QRCC) provides advanced concepts and technology developments for the multi-sensor integration of ship detection equipment, integration
and coordination of ship self defense weapons, and coordination of hardkill and softkill assets to improve individual ship self defense capabilities against the Anti-Ship Cruise
Missile (ASCM) threat. The funding for the Self Defense Test Ship is for the dry-docking and overhaul of the Self Defense Test Ship to extend the service life for another 4
years. The Requirements and Analysis Working Group (RAWG) provides independent analysis for a variety of combat system trade-offs, ship class performance studies, and
force protection strategic plan development.

R-1 SHOPPING LIST - Item No.70

**UNCLASSIFIED** 

Exhibit R-2, RDTEN Budget Item Justification (Exhibit R-2, page 2 of 25)

#### CLASSIFICATION:

			DATE:
EXHIBIT R-2a, RDT&E Project Justification (Pag	e 1)		FEBRUARY 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	IAME
RDT&E, N / BA-4	0603755N/SHIP SELF DEFENSE	2133/Quick Reaction Comba	at Capability/Requirements and Analysis Working Grp

### B. Accomplishments/Planned Program

	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	3.577	0.000	0.000	
RDT&E Articles Quantity				

The RAWG will provide POM/PR process analysis, ship class, and component systems capabilities in support of Resource Manager's POM /PR budget process. The RAWG will provide analysis for a variety of combat systems trade-off and force protection strategic development. The RAWG will continue to respond to the PEO and OPNAV sponsors emergent tasking and participate and attend PRA working group meetings.

	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	0.000	3.488	0.000	
RDT&E Articles Quantity				

The RAWG will analyze Ship Self Defense PRA capabilities. Analysis will include baseline PRA requirements, excursions based on raid size, environment, and other operational considerations. The RAWG will respond to the PEO and OPNAV sponsors emergent tasking and participate and attend PRA working group meetings.

	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	0.000	0.000	3.491	
RDT&E Articles Quantity				

The RAWG will continue leadership and management of the Common ASCM Threat Characterization process for PEO IWS. The RAWG will continue to analyze Ship Self Defense PRA capabilities and respond to the PEO and OPNAV sponsors emergent tasking and participate and attend PRA working group meetings.

R-1 SHOPPING LIST - Item No. 70

**Exhibit R-2, RDTEN Budget Item Justification** (Exhibit R-2, page 3 of 25)

### **CLASSIFICATION:**

IIBIT R-2a, RDT&E Project Justification				DATE: FEBRUARY 2006
ROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER A	ND NAME P	ROJECT NUMBER	AND NAME
C&E, N / BA-4	0603755N/SHIP SELF DEFENSE	21	133 Quick Reaction	Combat Capability/Requirements and Analysis Working Group
C. PROGRAM CHANGE SUMMARY:				
Funding:	FY 2005	FY 2006	FY 2007	
FY 2006 President Budget	3.584	3.542	3.526	
FY 2007 President Budget	3.577	3.488	3.491	
Total Adjustments	-0.007	-0.054	-0.035	
Summary of Adjustments				
Other general provisions	-0.005	-0.001	-0.009	
Programmatic Changes	-0.002	-0.053	-0.042	
Revised rates & inflation indices	0.000	0.000	0.016	
Subtotal	-0.007	-0.054	-0.035	
Schedule:				
N/A				
Technical				
Technical:				
N/A				

### **CLASSIFICATION:**

			DATE:	
XHIBIT R-2a, RDT&E Pro				FEBRUARY 2006
PPROPRIATION/BUDGET AC	TIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N /	BA-4	0603755N/SHIP SELF DEFENSE	2133 Quick Reaction Combat Capa	bility/Requirements and Analysis Working Group
D. OTHER PROGRAM F	UNDING SUMMARY: NN/A			
E. ACQUISITION STRATEO	gy: N/A			
F. MAJOR PERFORMERS				
Dahlgren/ NSWC	DD - Responsible for overall	combat systems performance analysis for Navy ship cl	asses.	

#### CLASSIFICATION:

									DATE:					
Exhibit R-3 Cost Analysis (pa	ge 1)										FEBRUAF	RY 2006		
APPROPRIATION/BUDGET ACTIV	/ITY		PROGRAM					JMBER AND N						
RDT&E, N / BA-4			0603755N/S	SHIP SELF DEF	ENSE				at Capability/Re		alysis Working Group			
Cost Categories		Performing Activity & Location		Total PY s Cost	FY 05 Cost	FY 05 Award Date		FY 06 Award Date	FY 07 Cost	FY 07 Award Date		Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	7, 7												0.000	
Ancillary Hardware Development													0.000	
Component Development													0.000	1
Ship Integration													0.000	
Ship Suitability													0.000	
Systems Engineering	WX	Dahlgren, NS	WC DD	4.25	6 3.57	7 10/04	3.488	10/05	3.491	1 10/06		Continuing	Continuing	ı
Training Development													0.000	
Licenses													0.000	
Tooling													0.000	
GFE													0.000	
Award Fees													0.000	
Subtotal Product Development				4.25	6 3.57	7	3.488	в	3.49	1		Continuing	Continuing	
Development Support													0.000	)
Software Development													0.000	
Training Development													0.000	
Integrated Logistics Support													0.000	
Configuration Management													0.000	
Technical Data													0.000	)
GFE													0.000	)
Award Fees													0.000	_
Subtotal Support				0.00	0.00	)	0.000	)	0.000	D	0.000	0.000	0.000	)
Remarks:														

### CLASSIFICATION:

								DATE:						
Exhibit R-3 Cost Analysis (pa	ge 2)										FEBRUA	ARY 2006		
APPROPRIATION/BUDGET ACTIV			PROGRAM ELEMENT			PROJECT N	UMBER AND	NAME						
RDT&E, N / BA-4			0603755N/SHIP SELF [	DEFENSE		2133 Quick	Reaction Com	bat Capability/R	equirements	and Analysis Wor	king Group			
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost			FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	1		0.00	0									0.000	
Live Fire Test & Evaluation													0.000	,
Test Assets													0.000	,
Tooling													0.000	,
GFE													0.000	,
Award Fees													0.000	1
Subtotal T&E			0.00	0.000	)	0.00	0	0.00	00	0.000		0.000	0.000	j
Contractor Engineering Support	1	1		T	1						ı		0.000	, I
Government Engineering Support													0.000	
Program Management Support													0.000	1
Travel													0.000	
Labor (Research Personnel)													0.000	
SBIR Assessment													0.000	
Subtotal Management			0.00	0.000		0.00	0	0.00	00	0.000		0.000		
Remarks:														
Total Cost			4.25	6 3.577		3.48	8	3.49	91	0.000		Continuing	14.812	
Remarks:														

### CLASSIFICATION:

EXHIBIT R4, Schedule Profile: NOT APPLIC	ABLE								N	/A											DATE	:	FE	BRU	ARY 2	2006		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4					PROG 06037				UMBE	R AND	NAM	E					PROJECT NUMBER AND NAME 2133 QRCC/RAWG											
		20	05		2006				LILIN	200	07			20	08		2009					20	10			20	11	
Fiscal Year	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
Acquisition Milestones																												
Test & Evaluation Milestones																												
Production Milestones																												
Deliveries																												

### **CLASSIFICATION:**

Exhibit R-4a, Schedule Detail  NOT APPLICABLE						DATE: <b>FE</b>	EBRUARY 2	006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	LEMENT		PROJECT NU	JMBER AND N	AME		
RDT&E, N / BA-4		IP SELF DEFE	NSE		eaction Comba		nalysis Working	g Grp
Schedule Profile		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Prototype Phase								_
System Design Review (SDR)								
Milestone II (MSII)								
Contract Preparation								
Software Specification Review (SSR)								
Preliminary Design Review (PDR)								
System Development								
Critical Design Review (CDR)								1
Quality Design and Build								
Test Readiness Review (TRR)								
Developmental Testing (DT-IIA)								
Eng Dev Model (EDM) Radar Delivery - Lab								
Software Delivery 1XXSW								
Preproduction Readiness Review (PRR)								
EDM Radar Delivery - Flt Related								
Milestone C (MS C)								
Operational Testing (OT-IIA)								
Start Low-Rate Initial Production I (LRIP I)								
Software Delivery 2XXSW								
Developmental Testing (DT-IIB1)								
Developmental Testing (DT-IIB2)								
Start Low-Rate Initial Production II								
Operational Testing (OT-IIB)								
Developmental Testing (DT-IIC)								
Functional Configuration Audit (FCA)								
Low-Rate Initial Production I Delivery								
Technical Evaluation (TECHEVAL)								
Physical Configuration Audit								
Operational Evaluation (OT-IIC) (OPEVAL)								
Low-Rate Initail Production II Delivery								
IOC								
Full Rate Production (FRP) Decision				1				
Full Rate Production Start								
First Deployment								

#### CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							FEBRUA	RY 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	ENT NUMBER AND	NAME		PROJECT NUMBE	ER AND NAME		
RDT&E, N / BA-4	0603755N/SHIP S	ELF DEFENSE			2184 Force AAW (	Coordination Techno	ology	
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		9.663	5.959	1.989	2.005	3.006	10.008	10.012
RDT&E Articles Qty		n/a	n/a	n/a	n/a	n/a	n/a	n/a

#### A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Force Anti-Air Warfare Technology (FACT) Program is an advanced development effort designed to demonstrate Force Anti-Air Warfare (AAW) concepts and capabilities that will significantly improve our Force defense in depth, including both local area and self defense capabilities against current and future AAW threats. FACT improvements are designed to enhance the AAW warfighting ability of ships and aircraft and to enable coupling of the Force into a single, AAW distributed weapon system and towards more effective use of tactical data and the cooperative use of all the force sensors and weapons. These capabilities will provide the ship defense flexibility needed to meet the threat brought about by increasing numbers of highly sophisticated weapons held by potentially hostile third world countries. FACT defines requirements and develops prototype systems or modifications to existing systems to test new concepts for the coordination of Force operations. FACT is a model Sea Enterprise effort that consistently delivers advanced war-fighting capability that addresses current Fleet shortfalls and needs quickly and cost effectively. Some examples of prototype systems now in production are AN/SPS-48C Detection Data Converter, AN/SPS-48E Environmental Control Feature, Shipboard Gridlock System Automatic Correlation (SGS/AC) and Dial-a-Track Quality (Link-11 Quality Selection). Other FACT developments nearing production stages are the Automatic Identification System (Auto-ID) and the Multi-Frequency Link-11 capability; Dual Net Multi-Frequency Link-11 (DNMFL); Force Threat Evaluation Weapons Assignment (FTEWA); and the prototype Area Air Defense Commander (AADC) and the Joint Targeting Attack and Assessment Capability (JTAAC). During FY06, the Innovation Team will begin to expand the offensive counter air (OCA) capabilities developed for JTAAC utilizing electro-optical (EO) and infrared (IR) sensors to include other sensors. This effort will be a complement to the JTAAC, leveraging the technologies and end to end capab

R-1 SHOPPING LIST - Item No.

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### **CLASSIFICATION:**

	IBIT R-2a, RDT&E Project Justification								
PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUM	MBER AND NAME	PROJECT NUMBER AND	FEBRUARY 2006 NAME					
DT&E, N / BA-4	0603755N/SHIP SELF DEF		2184 Force AAW Coordinate						
Accomplishments/Planned Program	·								
, , , , , , , , , , , , , , , , , , ,									
	FY05	FY06	FY07						
Accomplishments/Effort/Subtotal Cost	9.663	5.959	1.989						
RDT&E Articles Quantity									
FACT program requirements.				d documentation that impact the execution of the					
	FY05	FY06	FY07						
Accomplishments/Effort/Subtotal Cost	0.000	0.000	0.000						
RDT&E Articles Quantity		1							
Accomplishments/Effort/Subtotal Cost	FY05 0.000	FY06 0.000	FY07 0.000						
Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity	FY05 0.000	FY06 0.000	FY07 0.000						

### **CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification				DATE:				
				FEBRUARY 2006				
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		PROJEC	T NUMBER AND NAME				
RDT&E, N / BA-4	0603755N/SHIP SELF DEFENSE		2184 Force AAW Coordination Technology					
C. PROGRAM CHANGE SUMMARY:								
Funding:	FY 2005	FY 2006	FY 2007					
FY 2006 President's Budget	5.818	6.050	7.408					
FY 2007 President's Budget	9.663	5.959	1.989					
Total Adjustments	3.845	-0.091	-5.419					
Summary of Adjustments								
Other general provisions	-0.154	-0.091	-0.012					
Programmatic Changes	3.999		-5.420					
Revised rates & inflation indices			0.013					
Subtotal	3.845	-0.091	-5.419					
Schedule:								
Not Applicable.								
Technical:								
Not Applicable.								
	D 4 CHODDING LICT I							

### CLASSIFICATION:

EXHIBIT R-2a, RDT&E	Project Justification			DATE:
A D D D D D D D D D D D D D D D D D D D				FEBRUARY 2006
APPROPRIATION/BUDGET		PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NA	
RDT&E, N /	BA-4	0603755N/SHIP SELF DEFENSE	2184 Force AAW Coordinatio	n Technology
D. OTHER PROGRA	AM FUNDING SUMMARY:	Not Applicable		
E. ACQUISITION STR	ATEGY: Not Applicable			
	••			
F. MAJOR PERFORM	ERS: APL/Laurel, MD	11/02		

#### CLASSIFICATION:

								DATE:	•				
Exhibit R-3 Cost Analysis (p	age 1)							1		FEB	BRUARY 2006		
APPROPRIATION/BUDGET ACT	IVITY	PROGRAM E	LEMENT			PROJECT NU							
RDT&E, N / BA-4			IIP SELF DEFE	NSE		2184 Force A	AW Coordinat	ion Technology					
Cost Categories		Performing	Total	EV 05	FY 05		FY 06	E) ( 07	FY 07		0	T	T / . l
	Method & Type	Activity & Location	PY s Cost	FY 05 Cost	Award Date		Award Date	FY 07 Cost	Award Date		Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	CPFF	APL/Laurel, MD	89.873		_	5.959		1.989			CONT		
Systems Engineering	0111	SPAWAR, S.D.	0.150		7 11/04	3.333	11/03	1.505	11/00		00111	0.150	
Systems Engineering		SPAWAR NORFOLK	0.130		1			1				0.417	
Systems Engineering		PUGET SOUND BOSTON	0.029									0.029	
Systems Engineering	GSA	GRCI	0.204		1			1				0.204	
Miscellaneous	OOA	Unknown	0.187									0.187	
Pontoon Barrier		Unknown	0.961									0.961	
Licenses		OTIKIOWII	0.501		1			1				0.000	
Tooling												0.000	
GFE												0.000	
Award Fees												0.000	
Subtotal Product Development			91.821	9.663	2	5.959		1.989			CONT	CONT	
Development Support												0.000	
Software Development												0.000	
Integrated Logistics Support		NSWC/PHD	0.175									0.175	
Integrated Logistics Support		NSLC Mech, PA	0.005									0.005	i
Integrated Logistics Support	GSA	AMERIND	0.111									0.111	
Technical Data		NSWC/DD/ Dahlgren, VA	0.150									0.150	
GFE												0.000	
Award Fees												0.000	
Subtotal Support			0.441	0.000	D	0.000		0.000		0.000	0.000	0.441	
Remarks:													

#### CLASSIFICATION:

Exhibit R-3 Cost Analysis (pa	age 2)							DATE: <b>FE</b>	BRUARY	2006			
APPROPRIATION/BUDGET ACTI	VITY	PROGRAM	ELEMENT			PROJECT N	JMBER AND	NAME					
RDT&E, N / BA-4		0603755N/S	SHIP SELF DEF	ENSE		2184 Force A	AW Coordina	ation Technology					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date		Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation													
Operational Test & Evaluation	CPFF	APL/Laurel, MD	2.629	0.000		0.00	)	0.000			CONT	CONT	-
Live Fire Test & Evaluation												0.000	,
Test Assets												0.000	,
Tooling												0.000	)
GFE												0.000	)
Award Fees												0.000	)
Subtotal T&E			2.629	0.000		0.00	D	0.000	)		CONT	CONT	-
Contractor Engineering Support	CDAE	DOE SUBINICEIELD VA	0.006	,		<u> </u>	1					0.006	,
Contractor Engineering Support	CPAF	RGE, SPRINGFIELD, VA	0.006									0.006	
Contractor Engineering Support	CPFF	SPA,FAIRFAX, VA	0.100									0.100	1
Contractor Engineering Support	CPFF	LOGICON, FALLS CHUR, VA											
Contractor Engineering Support	GSA	STRATEGIC INSIGHT, VA	0.189									0.590	
Program Management Support Program Management Support	GSA (ODE	DSR, FAIRFAX, VA	0.590			0.00	,	0.000			CONT	1	
Travel	GSA/CPF	FUELTA ARLINGTON VA	0.261	0.000	1	0.00	,	0.000	1		CONT	0.000	
Labor (Research Personnel)												0.000	
Subtotal Management			1.206	0.000	,	0.00	)	0.000	1		CONT		
Remarks:	•			,		,					,	,	•
Total Cost			96.097	9.663	3	5.95	9	1.989	)	0.000	CONT	CONT	
Remarks:													

### CLASSIFICATION:

EXHIBIT R4, Schedule																							DATE		FE	BRUA	ARY 2	006		
APPROPRIATION/BUDGET RDT&E, N /	ACTIVI BA-4							RAM '55N/S				R AND	NAMI	E									ID NAM		ology					
Fiscal Year				200	05		00001	20				200	07		2008		2184 Force AAW Coordin 2009			20			2011							
ristai reai			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
Support GWOT Operations			Contin	ued																										
Support Transtion on JTAAC							Begin																							
Begin Follow-On FACT Initiative																							Begin							

### **CLASSIFICATION:**

Exhibit R-4a, Schedule Detail: NOT APPLICABLE							BRUARY 20	006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	LEMENT			PROJECT NU	MBER AND NA	AME	
RDT&E, N / BA-4	0603755N/SH	IP SELF DEFE	NSE		2184 Force A	AW Coordination	n Technology	
Schedule Profile		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Continued Support of GWOT Operations		1Q						
Begin Transition of JTAAC Within USN			1Q					
Begin Transition of JTAAC Within USN Conclude Suppot of GWOT Operations (exact date unknown)								
Conclude Transition of JTAAC Within USN (exact date unknown)								
Begin Follow-On FACT Initiative							1Q	
	1							
	1							

#### CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification	1						DATE:	
							FEBRUA	RY 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	ENT NUMBER AN	D NAME		PROJECT NUMBE	R AND NAME		
RDT&E, N / BA-4	0603755N/SHIP S	ELF DEFENSE			3160 Ocean Surve	illance Initiative		
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost				3.417	5.832	6.009		
RDT&E Articles Qty			n/a	n/a	n/a	n/a	n/a	n/a

#### A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Innovation Program is an advanced development effort designed to demonstrate Force concepts and capabilities which significantly improve our Force defense in depth, including both local area and self defense capabilities against current and future threats. The Innovation Team has consistently provided the warfighter innovative products which resolve current complex warfighter issues quickly and cost effectively. The Innovation Team will begin expanding its focus to include maritime offensive counter air. Under the auspices of the Ocean Surveillance Initiative, this innovation cell plans to leverage technologies that they developed in the JTAAC to provide a prototype which will create a coherent surface track picture in a large area of operations (AO) enabling sustained situational understanding. Their focus will be optimizing sensor selection and configuration to reliably detect, track, and classify ships in the AO with an objective goal of attaining a tactically significant probability of detection, continuous track, and correct classification down to small and medium sized vessels in sea state 5. The Ocean Surveillance Initiative is the natural progression for the USN to leverage the JTAAC offensive counter air end to end capability to the maritime domain.

### **CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justifica	HIBIT R-2a, RDT&E Project Justification								
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUM	DED AND NAME	PROJECT NUMBER AND N	FEBRUARY 2006					
DT&E, N / BA-4	0603755N/SHIP SELF DEFE	ENSE	3160 Ocean Surveillance Ini	itiative					
Accomplishments/Planned Program									
	FY05	FY06	FY07						
Accomplishments/Effort/Subtotal Cost			3.417						
RDT&E Articles Quantity									
Ocean Surveillance Initiative.									
	FY05	FY06	FY07						
Accomplishments/Effort/Subtotal Cost			0.000						
RDT&E Articles Quantity									
Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity	FY05	FY06	FY07						

R-1 SHOPPING LIST - Item No. 70

Exhibit R-2, RDTEN Budget Item Justification (Exhibit R-2, page 19 of 25)

### **CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification				DATE:	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAM	10	l pp	OJECT NUMBER AND NAME	FEBRUARY 2006
RDT&E, N / BA-4	0603755N/SHIP SELF DEFENSE	IC .		60 Ocean Surveillance Initiative	
RDIGE, N / BA-4	0003755N/SHIP SELF DEFENSE		310	50 Ocean Surveillance Initiative	
C. PROGRAM CHANGE SUMMARY:					
FY 2006 President's Budget	FY 20	05 FY 2006	FY 2007		
FY 2007 President's Budget	0.0	0.000	0.000		
Total Adjustments	0.0				
I	0.0	0.000	3.417		
Summary of Adjustments					
Programmatic Changes			3.393		
Revised rates & inflation indices			0.024		
Subtotal			3.417		
Schedule:					
Not Applicable.					
Technical:					
Not Applicable.					

### CLASSIFICATION:

EXHIBIT R-2a, RDT	&E Project Justification		DATE:	
				FEBRUARY 2006
APPROPRIATION/BUDG		PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N /	BA-4	0603755N/SHIP SELF DEFENSE	3160 Ocean Surveillance Initiative	
D OTHER PROC	GRAM FUNDING SUMMARY: Not	Applicable		
D. OTTLER I ROC	MAINT CHEIR COMMANT.	Арриосые		
E ACQUISITION S	STRATEGY: Not Applicable			
L. ACQUISITION C	TRATEOT. Not applicable			
E MA IOD DEDEO	RMERS: APL/Laurel, MD	11/02		
F. MAJOR FERFO	NWERS. AFE/Laurei, WD	11/02		
		D	=-	

#### CLASSIFICATION:

								1												
Exhibit R-3 Cost Analysis (p	age 1)							DATE: FEBRUARY 2006												
APPROPRIATION/BUDGET ACT	VITY		PROGRAM ELEMENT			PROJECT	NUMBER AND	NAME												
RDT&E, N / BA-4	3160 Ocea	n Surveillance Ir	nitiative																	
Cost Categories	Contract	Performing	0603755N/SHIP SELF Total		FY 05		FY 06		FY 07											
	Method	Activity &	PY s	FY 05	Award	FY 06	Award	FY 07	Award			Cost to	Total	Target Value						
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date			Complete	Cost	of Contract						
Primary Hardware Development	CPFF	APL/Laurel, N	MD (	0.000	n/a		n/a	3.41	7 11/06			19.231	19.231							
Systems Engineering																				
Systems Engineering																				
Systems Engineering																				
Systems Engineering																				
Miscellaneous																				
Pontoon Barrier																				
Licenses																				
Tooling																				
GFE																				
Award Fees																				
Subtotal Product Development								3.41	7			19.231	19.231							
Development Support																				
Software Development																				
Integrated Logistics Support																				
Integrated Logistics Support																				
Integrated Logistics Support																				
Technical Data																				
GFE																				
Award Fees																				
Subtotal Support																				
Remarks:																				
					IOT Harra Na															

#### CLASSIFICATION:

Exhibit R-3 Cost A	nalvsis (pa	age 2)							DATE:				FEBF	RUARY 2006	
APPROPRIATION/BUI	DGET ACTIV	/ITY		PROGRAM ELEM	IENT		PROJEC	T NUMBER AN	D NAME						
RDT&E, N /	BA-4			0603755N/SHIP S	ELF DEFENSE			ean Surveillance							
Cost Categories		Contract Method & Type	Performing Activity & Location	Tot PY Co	s FY 0	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date			Cost to Complete	Total Cost	Target Value of Contract
Developmental Test &	Evaluation												•		
Operational Test & Eva															
Live Fire Test & Evalua															
Test Assets															
Tooling															
GFE															
Award Fees															
Subtotal T&E															
Contractor Engine	Cunnart		<u> </u>	<u> </u>								<del>                                     </del>	<del> </del>		
Contractor Engineering															
Contractor Engineering Contractor Engineering				+				+		+					
Contractor Engineering															
Program Management															
Program Management															
Travel	очьью														
Labor (Research Perso	nnel)														
Subtotal Management															
Remarks:															
Total Cost									3.	417	0.000	0	19.	231 1	19.231
Remarks:		•	,	,	4 CHORDINA	1	1	1	,	ı	, , , , , ,	•			,

### CLASSIFICATION:

EXHIBIT R4, Schedule																								DATE		FEI	BRUA	ARY 2	006		
APPROPRIATION/BUDGET													R AND	NAM						PROJ											
RDT&E, N /	BA-	4		1				06037	'55N/S	HIP S	ELF D	EFENS	SE							3160	Ocean	Surve	illance	Initiati	ve						
Fiscal Year					20	05		2006			2007			2008				2009				2010				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	1	2	3	4
Develop Ocean Surveillance Prototype												Begin											End								
																															<u> </u>

### **CLASSIFICATION:**

Exhibit R-4a, Schedule Detail: <b>NOT APPLIC</b>							BRUARY 20	006		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT	Surveillance Initiative							
RDT&E, N / BA-4	0603755N/SH	HIP SELF DEFE								
Schedule Profile		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
Begin Ocean Surveillance Initiative				1Q						
Conclude Ocean Surveillance Initiative						4Q				