

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification							DATE:	
							February 2004	
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-4					R-1 ITEM NOMENCLATURE 0603755N/SHIP SELF DEFENSE			
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Total PE Cost		9.101	9.625	9.493	9.595	10.874	11.041	11.210
2133/QRCC/RAWG		1.920	4.267	3.619	3.580	3.545	3.568	3.601
2184/(9050*) Force AAW Coord. Tech. (FACT)		7.181	5.358	5.874	6.015	7.329	7.473	7.609
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:								
<p>This program incorporates efforts dedicated to the enhancement of ship self defense against Anti-Air Warfare (AAW) threats. Its primary focus is on the development of technologies, systems, and procedures necessary to defeat the evolving Anti-Ship Cruise Missile (ASCM) threat. 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. Beginning in FY02, 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 AAW weapon system through more effective use of tactical data, and force sensors and weapons</p>								

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Exhibit R-2, RDTEN Budget Item Justification
(Exhibit R-2, page 1 of 18)

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2004	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603755N/SHIP SELF DEFENSE				PROJECT NUMBER AND NAME 2133/Quick Reaction Combat Capability/Req and Analysis W/G			
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost		1.920	4.267	3.619	3.580	3.545	3.568	3.601
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.

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2004																
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603755N/SHIP SELF DEFENSE	PROJECT NUMBER AND NAME 2133/Quick Reaction Combat Capability/Requirements and Analysis Working Grp																	
B. Accomplishments/Planned Program																			
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 25%;"></th><th style="width: 15%;">FY 03</th><th style="width: 15%;">FY 04</th><th style="width: 15%;">FY 05</th><th style="width: 30%;"></th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td style="text-align: center;">1.920</td><td style="text-align: center;">0.000</td><td style="text-align: center;">0.000</td><td></td></tr><tr><td>RDT&E Articles Quantity</td><td></td><td></td><td></td><td></td></tr></tbody></table>						FY 03	FY 04	FY 05		Accomplishments/Effort/Subtotal Cost	1.920	0.000	0.000		RDT&E Articles Quantity				
	FY 03	FY 04	FY 05																
Accomplishments/Effort/Subtotal Cost	1.920	0.000	0.000																
RDT&E Articles Quantity																			
<div style="border: 1px solid black; padding: 10px; min-height: 60px;">The Requirement Analysis Working Group (RAWG) provided POM/PR process analysis, ship class and component systems capabilities for Ship Self Defense (SSD). These analyses are supported by N76 and various PEO's involved in Ship Self Defense (SSD). The RAWG provided analysis for a variety of combat systems trade-off and force protection strategic development.</div>																			
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 25%;"></th><th style="width: 15%;">FY 03</th><th style="width: 15%;">FY 04</th><th style="width: 15%;">FY 05</th><th style="width: 30%;"></th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td style="text-align: center;">0.000</td><td style="text-align: center;">4.267</td><td style="text-align: center;">0.000</td><td></td></tr><tr><td>RDT&E Articles Quantity</td><td></td><td></td><td></td><td></td></tr></tbody></table>						FY 03	FY 04	FY 05		Accomplishments/Effort/Subtotal Cost	0.000	4.267	0.000		RDT&E Articles Quantity				
	FY 03	FY 04	FY 05																
Accomplishments/Effort/Subtotal Cost	0.000	4.267	0.000																
RDT&E Articles Quantity																			
<div style="border: 1px solid black; padding: 10px; min-height: 60px;">RAWG will assume leadership and management of the Common Anti Ship Cruise Missile (ASCM) Threat Characterization process for PEO IWS. The RAWG will provide support to the POM 06 Analysis for N76 staff and analyze threat D and its impact on the various ship combat systems. The RAWG will continue to respond to the PEO and OPNAV sponsors emergent tasking and participate and attend Probability of Raid Annihilation (PRA) working group meetings.</div>																			
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 25%;"></th><th style="width: 15%;">FY 03</th><th style="width: 15%;">FY 04</th><th style="width: 15%;">FY 05</th><th style="width: 30%;"></th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td style="text-align: center;">0.000</td><td style="text-align: center;">0.000</td><td style="text-align: center;">3.619</td><td></td></tr><tr><td>RDT&E Articles Quantity</td><td></td><td></td><td></td><td></td></tr></tbody></table>						FY 03	FY 04	FY 05		Accomplishments/Effort/Subtotal Cost	0.000	0.000	3.619		RDT&E Articles Quantity				
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Accomplishments/Effort/Subtotal Cost	0.000	0.000	3.619																
RDT&E Articles Quantity																			
<div style="border: 1px solid black; padding: 10px; min-height: 60px;">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 Requirements and Analysis Working Group (RAWG) will continue leadership and management of the Common ASCM Threat Characterization process for PEO IWS. The RAWG will continue to respond to the PEO and OPNAV sponsors emergent tasking and participate and attend PRA working group meetings.</div>																			

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Exhibit R-2a, RDTEN Project Justification
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EXHIBIT R-2a, RDT&E Project Justification		DATE:
		February 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDTE&, N / BA-4	0603755N/SHIP SELF DEFENSE	2133 Quick Reaction Combat Capability/Requirements and Analysis Working Group

C. PROGRAM CHANGE SUMMARY:

Funding:	FY 2003	FY 2004	FY 2005
Previous President's Budget: (FY 04-05 Pres Budget)	2.009	4.315	4.693
Current BES/President's Budget: (FY05 OSD)	1.920	4.267	3.619
Total Adjustments	-0.089	-0.048	-1.074

Summary of Adjustments			
21511 RAWG			-1.000
Issue 67769 NSWC Rates			-0.062
Issue 68849 FY 03Update	-0.066		
Issue 66642 BSO Adjustments	-0.005		
Issue 66556 FY 03 SBIR	-0.018		
Minor Pricing Adjustments		-0.048	-0.012
Subtotal	-0.089	-0.048	-1.074

Schedule:

N/A

Technical:

N/A

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2004
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603755N/SHIP SELF DEFENSE	PROJECT NUMBER AND NAME 2133 Quick Reaction Combat Capability/Requirements and Analysis Working Group
<p>D. OTHER PROGRAM FUNDING SUMMARY: Not Applicable</p> <p>E. ACQUISITION STRATEGY: Not Applicable</p> <p>F. MAJOR PERFORMERS: Dahlgren/ NSWCCD - Responsible for overall combat systems performance analysis for Navy ship classes.</p>		

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Exhibit R-3 Cost Analysis (page 1)								DATE: February 2004				
APPROPRIATION/BUDGET ACTIVITY RD&E, N / BA-4			PROGRAM ELEMENT 0603755N/SHIP SELF DEFENSE			PROJECT NUMBER AND NAME 2133 Quick Reaction Combat Capability/Requirements and Analysis Working Group						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development											0.000	
Ancillary Hardware Development											0.000	
Component Development											0.000	
Ship Integration											0.000	
Ship Suitability											0.000	
Systems Engineering	WX	Dahlgren, NSWC DD	4.955	1.920	10/02	4.267	10/03	3.619	10/04	Continuing	Continuing	
Training Development											0.000	
Licenses											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Product Development			4.955	1.920		4.267		3.619		Continuing	Continuing	
Remarks:												
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			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												

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Exhibit R-3, Project Cost Analysis
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Exhibit R-3 Cost Analysis (page 2)								DATE: February 2004				
APPROPRIATION/BUDGET ACTIVITY RD&E, N / BA-4			PROGRAM ELEMENT 0603755N/SHIP SELF DEFENSE			PROJECT NUMBER AND NAME 2133 Quick Reaction Combat Capability/Requirements and Analysis Working Group						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	Dahlgren NSWC DD	9.725								9.725	
Live Fire Test & Evaluation											0.000	
Test Assets											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal T&E			9.725	0.000		0.000		0.000		0.000	9.725	
Remarks:												
Contractor Engineering Support											0.000	
Government Engineering Support											0.000	
Program Management Support											0.000	
Travel											0.000	
Labor (Research Personnel)											0.000	
SBIR Assessment											0.000	
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												
Total Cost			14.680	1.920		4.267		3.619		Continuing	Continuing	
Remarks:												

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Exhibit R-3, Project Cost Analysis
(Exhibit R-3, page 7 of 18)

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EXHIBIT R4, Schedule Profile: NOT APPLICABLE																								DATE: Febraury 2004											
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4												PROGRAM ELEMENT NUMBER AND NAME 0603755N/SHIP SELF DEFENSE												PROJECT NUMBER AND NAME 2133 QRCC/RAWG											
Fiscal Year	2002				2003				2004				2005				2006				2007				2008				2009						
	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			
Acquisition Milestones																																			
Test & Evaluation Milestones																																			
Production Milestones																																			
Deliveries																																			

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Exhibit R-4a, Schedule Detail						DATE:		
NOT APPLICABLE						February 2004		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME		
RDT&E, N / BA-4			0603755N/SHIP SELF DEFENSE			2133 Quick Reaction Combat Cap/Req & Analysis Working Grp		
Schedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
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)								
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 Initial Production II Delivery								
IOC								
Full Rate Production (FRP) Decision								
Full Rate Production Start								
First Deployment								

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Exhibit R-4a, Schedule Detail
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EXHIBIT R-2a, RDT&E Project Justification							DATE: FEBRUARY 2004	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603755N/SHIP SELF DEFENSE				PROJECT NUMBER AND NAME 2184 Force AAW Coordination Technology			
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost		7.181	5.358	5.874	6.015	7.329	7.473	7.609
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, distributed AAW 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 AAW operations. 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 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 Line (DNMFL); Force Threat Evaluation Weapons Assignment (FTEWA); and the prototype Area Air Defense Commander (AADC) capability. Short and long term objectives will be phased in to produce higher degrees of ship defense and battle coordination and effectiveness.

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B. Accomplishments/Planned Program																			
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	FY03	FY04	FY05	FY06															
Accomplishments/Effort/Subtotal Cost	6.271	4.754	5.389	5.546															
RDT&E Articles Quantity																			
On going development of Joint Targeting Attack & Assessment Capability (JTAAC)/demonstrations at sea and ashore, and support Navy's transition of JTAAC to a production program.																			
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	FY03	FY04	FY05	FY06															
Accomplishments/Effort/Subtotal Cost	0.760	0.454	0.335	0.319															
RDT&E Articles Quantity																			
Support land based and at sea experiments of Advanced Command and Control Systems, conduct analysis to evaluate air defense concepts and capabilities including Multi-TADIL operations and air defense operations.																			
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	FY03	FY04	FY05	FY06															
Accomplishments/Effort/Subtotal Cost	0.150	0.150	0.150	0.150															
RDT&E Articles Quantity																			
Provide top level programmatic support, technical analysis and assist in the development processes, procedures and documentation that impact the execution of the FACT program requirements.																			

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603755N/SHIP SELF DEFENSE	PROJECT NUMBER AND NAME 2184Force AAW Coordination Technology

B. Accomplishments/Planned Program (Cont.)

	FY03	FY04	FY05	FY06
Accomplishments/Effort/Subtotal Cost				
RDT&E Articles Quantity				

Develop the genesis for major improved functionality in Navy and Joint Defense.

	FY03	FY04	FY05	FY06
Accomplishments/Effort/Subtotal Cost				
RDT&E Articles Quantity				

Transportable Anti-Intrusion Pontoon Barrier System.

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APPROPRIATION/BUDGET ACTIVITY RDTE&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603755N/SHIP SELF DEFENSE	PROJECT NUMBER AND NAME 2184 Force AAW Coordination Technology	
C. PROGRAM CHANGE SUMMARY:			
Funding:	FY 2003	FY 2004	FY 2005
Previous President's Budget: (FY 04 Pres Controls)	3.876	5.418	5.912
Current BES/President's Budget: (FY05 Pres Controls)	7.181	5.358	5.874
Total Adjustments	3.305	-0.060	-0.038
Summary of Adjustments			
Business Process Reform	-0.015		
Economic Assuptions	-0.022		
IT Cost Growth	-0.007		
Inflation Savings	-0.041	-0.060	-0.019
SBIR	-0.101		
BSO Adjustments	-0.010		
Manpower			-0.019
FY03 UPDATE	3.501		
Subtotal	3.305	-0.060	-0.038
Schedule:			
Not Applicable.			
Technical:			
Not Applicable.			

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603755N/SHIP SELF DEFENSE	PROJECT NUMBER AND NAME 2184/K9050 Force AAW Coordination Technology
<p>D. OTHER PROGRAM FUNDING SUMMARY: Not Applicable</p> <p>E. ACQUISITION STRATEGY: Not Applicable</p> <p>F. MAJOR PERFORMERS: APL/Laurel, MD 11/02</p>		

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Exhibit R-3 Cost Analysis (page 1)								DATE: FEBRUARY 2004				
APPROPRIATION/BUDGET ACTIVITY RDTE, N / BA-4			PROGRAM ELEMENT 0603755N/SHIP SELF DEFENSE			PROJECT NUMBER AND NAME 2184 Force AAW Coordination Technology						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	CPFF	APL/Laurel, MD	74.407	6.271	11/02	4.754	11/03	5.389	11/04	CONT	CONT	
Systems Engineering		SPAWAR, S.D.	0.150								0.150	
Systems Engineering		SPAWAR NORFOLK	0.417								0.417	
Systems Engineering		PUGET SOUND BOSTON	0.029								0.029	
Systems Engineering	GSA	GRCI	0.204								0.204	
Miscellaneous		Unknown	0.187								0.187	
Pontoon Barrier		Unknown	0.961								0.961	
Licenses											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Product Development			76.355	6.271		4.754		5.389		CONT	CONT	
Remarks:												
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	
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		0.000		0.000		0.000	0.441	
Remarks:												

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Exhibit R-3, Project Cost Analysis
(Exhibit R-3, page 15 of 18)

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Exhibit R-3 Cost Analysis (page 2)										DATE: FEBRUARY 2004		
APPROPRIATION/BUDGET ACTIVITY RD&E, N / BA-4			PROGRAM ELEMENT 0603755N/SHIP SELF DEFENSE			PROJECT NUMBER AND NAME 2184/K9050 Force AAW Coordination Technology						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation											0.000	
Operational Test & Evaluation	CPFF	APL/Laurel, MD	1.415	0.760	11/02	0.454	11/02	0.335	11/02	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			1.415	0.760		0.454		0.335		CONT	CONT	
Remarks:												
Contractor Engineering Support	CPAF	RGE, SPRINGFIELD, VA	0.006								0.006	
Contractor Engineering Support	CPFF	SPA,FAIRFAX, VA	0.100								0.100	
Contractor Engineering Support	CPFF	LOGICON, FALLS CHUR, VA	0.060									
Contractor Engineering Support	GSA	STRATEGIC INSIGHT, VA	0.189									
Program Management Support	GSA	DSR, FAIRFAX, VA	0.440	0.150	11/02						0.590	
Program Management Support	GSA	DELTA ARLINGTON VA	0.000	0.000		0.150	11/03	0.150	11/04	CONT	CONT	
Travel											0.000	
Labor (Research Personnel)											0.000	
Subtotal Management			0.795	0.150		0.150		0.150		CONT	CONT	
Remarks:												
Total Cost			79.006	7.181		5.358		5.874		CONT	CONT	
Remarks:												

R-1 SHOPPING LIST - Item No. 70

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Exhibit R-3, Project Cost Analysis
(Exhibit R-3, page 16 of 18)

CLASSIFICATION:

EXHIBIT R4, Schedule Profile:																								DATE:				FEBRUARY 2004							
APPROPRIATION/BUDGET ACTIVITY												PROGRAM ELEMENT NUMBER AND NAME												PROJECT NUMBER AND NAME											
RDT&E, N / BA-4												0603755N/SHIP SELF DEFENSE												2184 Force AAW Coordination Technology											
Fiscal Year	2002				2003				2004				2005				2006				2007				2008				2009						
	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			
CHART NOT APPLICABLE																																			

R-1 SHOPPING LIST - Item No. 70

* Not required for Budget Activities 1, 2, 3, and 6

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CLASSIFICATION:

[illegible]

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Exhibit R-4a, Schedule Detail
(Exhibit R-4a, page 18 of 18)