

# UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-4					R-1 ITEM NOMENCLATURE Combat Systems Integration/Battle Force Interoperability 0603582N			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Total PE Cost	63.904	57.048	86.836	48.439	49.889	57.362	46.523	34.662
Combat Systems Integ S0164/S2865/S2763	63.904	57.048	86.836	48.439	49.889	57.362	46.523	34.662
<p><b>Defense Emergency Response Funds (DERF) Funds:</b> Not Applicable.</p> <p><b>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b></p> <p><u>Project S0164/S2865/S2763: Combat Systems Integration/Battle Force Interoperability:</u> This project funds: Battle Force (BF) requirements engineering and analysis. BF configuration management through the Deployment minus 30 months (D-30) process, shore based testing and Combat System Integration Testing (CSIT) certification of operational computer systems in a test environment similar to their ultimate shipboard operational environment, and Battle Force interoperability testing (BFIT) which is a prerequisite for operational Certification of the Battle Force configuration prior to deployment. BFIT Certification of deploying Battle Force configurations is accomplished through the utilization of the Navy's Distributed Engineering Plant (DEP), which provides operational configurations for all combat system configurations located at multiple Navy land-based sites located across the country and connected via ATM networking technology. The DEP provides the only opportunity for comprehensive interoperability testing of combat system and C4I configuration items prior to shipboard delivery for operational use in surface combatant platforms and battle group units. It is a Combatant Commanders requirement that all Battle Forces undergo Battle Force Interoperability Testing (BFIT) in the DEP prior to deployment.</p> <p>Through the implementation of this program, the Navy has made considerable improvements in Battle Force Interoperability. A key milestone in the D-30 Certification Process is the Battle Force Interoperability Testing (BFIT) that occurs 10-12 months prior to deployment. By utilizing the Distributed Engineering Plant, the Navy has been able to identify recurring interoperability problems, which have then been prioritized into 21 main categories by Battle Group Commanders and their staffs. The Navy has prioritized possible interoperability fixes and coordinated with combat system managers to identify the fix path to resolve the interoperability problems. DEPSECDEF Guidance issued in October 2001 directs the Services to resolve interoperability problems in legacy combat systems by FY08 and develop metrics to evaluate operational improvements associated to those corrections.</p> <p>The core program was directed to focus on and execute to its minimum executable requirement for Anti Air Warfare (AAW) across mission requirements.</p> <p>Additionally, this project funds Navy's implementation of improvements to specific combat systems as required to correct interoperability problems as necessary to achieve a Single Integrated Air Picture (SIAP). The Joint community has established guidelines for problem corrections, to be addressed in incremental Blocks designed to improve the SIAP. A SIAP is the product of fused, near-real-time and real-time data from multiple sensors to allow development of common, continuous, and unambiguous tracks of all airborne objects in the surveillance area.</p>								

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Exhibit R-2, RDTEN Budget Item Justification  
(Exhibit R-2, page 1 of 10)

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EXHIBIT R-2a, RDT&E Project Justification			DATE: <b>February 2003</b>																
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N/BA-4</b>	PROGRAM ELEMENT NUMBER AND NAME 0603582N CSI/BFI	PROJECT NUMBER AND NAME S0164/S2865/S2763 CSI/BFI																	
<b>B. Accomplishments/Planned Program</b>																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%;"><b>D-30</b></td> <td style="width: 15%;">FY 02</td> <td style="width: 15%;">FY 03</td> <td style="width: 15%;">FY 04</td> <td style="width: 15%;">FY 05</td> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td>6.123</td> <td>6.696</td> <td>7.477</td> <td>7.261</td> </tr> <tr> <td>RDT&amp;E Articles Quantity</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> </table>					<b>D-30</b>	FY 02	FY 03	FY 04	FY 05	Accomplishments/Effort/Subtotal Cost	6.123	6.696	7.477	7.261	RDT&E Articles Quantity	N/A	N/A	N/A	N/A
<b>D-30</b>	FY 02	FY 03	FY 04	FY 05															
Accomplishments/Effort/Subtotal Cost	6.123	6.696	7.477	7.261															
RDT&E Articles Quantity	N/A	N/A	N/A	N/A															
<div style="border: 1px solid black; padding: 5px;"> Continue execution of D-30 Process for all Battle Groups in the deployment cycle, including: BFAO efforts, BG Change Control Process, BG Capabilities and Limitations Report and Engineering assessments. Continue configuration management for all battle groups. Continue development of AMPS and Electronic Configuration Control Board (ECCB). In any given year, 12+ Battle Forces are being evaluated in some phase of the D-30 Process, 26 Capabilities and Limitations Documents are delivered, and 6000 configuration change requests are processed. </div>																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%;"><b>CSIT</b></td> <td style="width: 15%;">FY 02</td> <td style="width: 15%;">FY 03</td> <td style="width: 15%;">FY 04</td> <td style="width: 15%;">FY 05</td> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td>9.485</td> <td>11.028</td> <td>11.412</td> <td>11.055</td> </tr> <tr> <td>RDT&amp;E Articles Quantity</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> </table>					<b>CSIT</b>	FY 02	FY 03	FY 04	FY 05	Accomplishments/Effort/Subtotal Cost	9.485	11.028	11.412	11.055	RDT&E Articles Quantity	N/A	N/A	N/A	N/A
<b>CSIT</b>	FY 02	FY 03	FY 04	FY 05															
Accomplishments/Effort/Subtotal Cost	9.485	11.028	11.412	11.055															
RDT&E Articles Quantity	N/A	N/A	N/A	N/A															
<div style="border: 1px solid black; padding: 5px;"> Conducted Combat System Integration Testing (CSIT) of Advanced Combat Direction System (ACDS) Block-0, level 10.24.X, ACDS Block-1 2.1.8, Combat Direction System (CDS) level 12.X/13.X in CV/CVN, LSD, and LHD ship classes, SSDS MK-2, Mod 0, and Command and Control Processor (C2P) upgrade. Continued planning for out-year Combat System Integration Testing (CSIT). Conduct Combat System Integration Testing (CSIT) of Ship Self Defense System (SSDS) MK-2 Mods 1-2 combat systems and associated elements for CV/LHD/LHA/LPD ship classes and Test Bed Validation. Continue planning for out-year Combat System Integration Testing (CSIT). </div>																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%;"><b>BFIT/DEP</b></td> <td style="width: 15%;">FY 02</td> <td style="width: 15%;">FY 03</td> <td style="width: 15%;">FY 04</td> <td style="width: 15%;">FY 05</td> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td>26.362</td> <td>15.980</td> <td>22.959</td> <td>22.714</td> </tr> <tr> <td>RDT&amp;E Articles Quantity</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> </table>					<b>BFIT/DEP</b>	FY 02	FY 03	FY 04	FY 05	Accomplishments/Effort/Subtotal Cost	26.362	15.980	22.959	22.714	RDT&E Articles Quantity	N/A	N/A	N/A	N/A
<b>BFIT/DEP</b>	FY 02	FY 03	FY 04	FY 05															
Accomplishments/Effort/Subtotal Cost	26.362	15.980	22.959	22.714															
RDT&E Articles Quantity	N/A	N/A	N/A	N/A															
<div style="border: 1px solid black; padding: 5px;"> Provided Distributed Engineering Plant (DEP) Testbed to support land based testing of complex computer program configurations for the Battle Force. Conduct Battle Group Interoperability Testing (BGIT) for ABRAHAM LINCOLN, GEORGE WASHINGTON, KITTY HAWK, HARRY S. TRUMAN, NIMITZ, and CONSTELLATION Battle Groups. Conducted Interoperability Systems Engineering Tests (ISETs) for root cause determination of key interoperability trouble report observation. Funded Navy participation in Joint Distributed Engineering Plant (JDEP). Provide Distributed Engineering Plant (DEP) testbed to support land-based testing of complex computer program configurations for the Battle Force. Conduct Battle Force Interoperability Testing (BFIT) in FY03 for ENTERPRISE, CARL VINSON, GEORGE WASHINGTON, HARRY S. TRUMAN, JOHN F. KENNEDY and THEODORE ROOSEVELT Battle Groups; in FY04 for JOHN C. STENNIS, ABRAHAM LINCOLN, HARRY S. TRUMAN, and RONALD REAGAN Battle Groups; in FY05 NIMITZ, THEODORE ROOSEVELT, and ENTERPRISE, DWIGHT EISENHOWER and JOHN F. KENNEDY Battle Groups. Funds Navy participation in Joint Distributed Engineering Plant (JDEP) and related land-based test events. </div>																			

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E,N/BA-4</b>	PROGRAM ELEMENT NUMBER AND NAME 0603582N CSI/BFI	PROJECT NUMBER AND NAME S0164/S2865/S2763 CSI/BFI																	
<b>B. Accomplishments/Planned Program (Cont.)</b>																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%;">BF Requirements Engineering and Analysis</th> <th style="width: 15%;">FY 02</th> <th style="width: 15%;">FY 03</th> <th style="width: 15%;">FY 04</th> <th style="width: 15%;">FY 05</th> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td>3.666</td> <td>3.892</td> <td>4.241</td> <td>3.898</td> </tr> <tr> <td>RDT&amp;E Articles Quantity</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> </table> <p style="margin-top: 10px;">Continued to develop Design Reference Mission (DRM) to communicate requirements in their operational context. Continue to evolve Battle Force Interoperability Requirements (BFIR) to ensure the ability of the Battle Force to evaluate progressive levels of operational performance and system interoperability. Continue to test and evaluate interoperability of deploying Battle Forces to assess performance improvements. Develop data sets that can be used to apply quantifiable and measurable Battle Force Interoperability Requirements to an Over-Arching Requirements Document or Capstone Requirements Document (CRD) for use by combat system and C4I acquisition programs.</p>					BF Requirements Engineering and Analysis	FY 02	FY 03	FY 04	FY 05	Accomplishments/Effort/Subtotal Cost	3.666	3.892	4.241	3.898	RDT&E Articles Quantity	N/A	N/A	N/A	N/A
BF Requirements Engineering and Analysis	FY 02	FY 03	FY 04	FY 05															
Accomplishments/Effort/Subtotal Cost	3.666	3.892	4.241	3.898															
RDT&E Articles Quantity	N/A	N/A	N/A	N/A															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%;">Interoperability Fixes</th> <th style="width: 15%;">FY 02</th> <th style="width: 15%;">FY 03</th> <th style="width: 15%;">FY 04</th> <th style="width: 15%;">FY 05</th> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td>0.000</td> <td>0.000</td> <td>14.000</td> <td>1.800</td> </tr> <tr> <td>RDT&amp;E Articles Quantity</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> </table> <p style="margin-top: 10px;">There are currently 558 unresolved unique interoperability problems identified through BFIT and BGSIT testing and prioritized by the Fleet into 21 categories. Funding is dedicated to develop and implement interoperability fixes to AEGIS and ACDS combat systems, and to validate and certify completed ACDS and AEGIS fixes at the platform and Battle Force level through land-based testing. In accordance with DEPSECDEF Guidance of Oct 2001, interoperability problem corrections are evaluated according to their ability to improve the operational performance of deploying Battle Forces. In FY04 the HARRY S. TRUMAN, NIMITZ, and ENTERPRISE Battle groups will receive fixes addressing approximately 130 of the Fleet's top issues. Systems impacted include C2P, CEC 2.1, ACDS Block 0, FFG CDS, Auto ID, AWS 5.4 and AWS 6.3.</p>					Interoperability Fixes	FY 02	FY 03	FY 04	FY 05	Accomplishments/Effort/Subtotal Cost	0.000	0.000	14.000	1.800	RDT&E Articles Quantity	N/A	N/A	N/A	N/A
Interoperability Fixes	FY 02	FY 03	FY 04	FY 05															
Accomplishments/Effort/Subtotal Cost	0.000	0.000	14.000	1.800															
RDT&E Articles Quantity	N/A	N/A	N/A	N/A															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%;">Navy SIAP Improvements</th> <th style="width: 15%;">FY 02</th> <th style="width: 15%;">FY 03</th> <th style="width: 15%;">FY 04</th> <th style="width: 15%;">FY 05</th> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td>0.000</td> <td>0.000</td> <td>1.719</td> <td>1.711</td> </tr> <tr> <td>RDT&amp;E Articles Quantity</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> </table> <p style="margin-top: 10px;">Navy implementation of combat system corrections as needed to affect a Single Integrated Air Picture (SIAP). Combat systems includes AEGIS.</p>					Navy SIAP Improvements	FY 02	FY 03	FY 04	FY 05	Accomplishments/Effort/Subtotal Cost	0.000	0.000	1.719	1.711	RDT&E Articles Quantity	N/A	N/A	N/A	N/A
Navy SIAP Improvements	FY 02	FY 03	FY 04	FY 05															
Accomplishments/Effort/Subtotal Cost	0.000	0.000	1.719	1.711															
RDT&E Articles Quantity	N/A	N/A	N/A	N/A															

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**B. Accomplishments/Planned Program (Cont.)**

CNI	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	16.320	15.639	25.028	0.000
RDT&E Articles Quantity	N/A	N/A	N/A	N/A

Per Congressional direction funds will be used for SBIR Phase III efforts to develop Common Network Interface Capabilities for theater and air missile defense.

\*\*FY03 Congressional plus-up of \$16M for Common Command and Decision/Program Element 0604518N incorrectly placed under Program Element 0603582N, CSI/BFI.

WOMBAT	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	1.948	0.000	0.000	0.000
RDT&E Articles Quantity	N/A	N/A	N/A	N/A

Funded development of Wideband Optically Multiplexed Beamformer.

Marine Corp	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.000	0.489	0.000	0.000
	N/A	N/A	N/A	N/A

Congressional Plus-up provided for USMC Institute.

HIGH ENERGY LASER	*FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.000	3.324	0.000	0.000
RDT&E Articles Quantity	N/A	N/A	N/A	N/A

FY 2002 Accomplishments: Developed small and inexpensive inertial measurement system that will provide precision pointing control and instrumentation for a variety of Acquisition Tracking and Pointing (ATP) system applications with primary emphasis on laser weapons. Performed systems engineering to develop the requirements and specifications for laser targeting power and timing as part of the laser designation and weapon system. System engineering and analysis for the operational utilization concept and the complementary operational effectiveness of the combined laser system components with the defensive missile system and combat system. Performed systems engineering and analysis of Laser material interaction and Lethality.

\* Funded under PE 0604574N

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**C. PROGRAM CHANGE SUMMARY:**

Funding:	FY 2002	FY 2003	FY 2004	FY 2005
Previous President's Budget: (FY 03 Pres Controls)	61.368	40.464	43.955	43.323
Current BES/President's Budget: (FY04 President's Controls)	63.904	57.048	86.836	48.439
Total Adjustments	2.536	16.584	42.881	5.116
Summary of Adjustments				
Inflation Adjustment		-0.619	-2.008	-1.044
Congressional rescissions	-0.181	-0.698		
Program Adjustment	3.999	-3.999	17.639	4.930
SBIR/STTR Transfer	-0.936		26.000	
Miscellaneous Adjustments	-0.346		-0.521	-0.532
SIAP Tier 2&3 funding to JROCM			20.286	12.903
SIAP Reduction			-18.500	-11.100
NWCF RATES			-0.015	-0.041
Congressional increases		21.900		
Subtotal	2.536	16.584	42.881	5.116

Schedule:

**Planned Battle Force Interoperability Tests (BFITs):**  
FY03: 1st Quarter: NIMITZ, THEODORE ROOSEVELT, 2nd Quarter: ENTERPRISE, 3rd Quarter: GEORGE WASHINGTON, CARL VINSON, 4th Quarter: JOHN F. KENNEDY  
FY04: 1st Quarter: N/A, 2nd Quarter: JOHN C. STENNIS, 3rd Quarter: HARRY S. TRUMAN, 4th Quarter: ABRAHAM LINCOLN, RONALD REAGAN  
FY05: 1st Quarter: ENTERPRISE, 2nd Quarter: DWIGHT EISENHOWER, NIMITZ, 3rd Quarter: THEODORE ROOSEVELT 4th Quarter: JOHN F. KENNEDY

**Planned Combat System Integration Tests (CSITs):**  
FY03: 1st Quarter: FFG Regression Test, CV/CVN Block 0, LHD Block 0, 2nd Quarter: CVN 68, CVN 67,/LHD 1, FFG 7 3rd Quarter: CVN 76, CVN 67,/LHD 1, FFG 7 4th Quarter: CVN 76,  
FY04: 1st Quarter: CVN 76, LSD 41/49 2nd Quarter: CVN 76, 3rd Quarter: LPD 17, CVN 65, CVN 71, CVN 72 ACDS Blk 0, LHD 4, 4th Quarter: LPD 17, SSDS MK2 MOD 1, LHD 7  
FY05: 1st Quarter: LHD 7, 2nd Quarter: N/A, 3rd Quarter: LHD 8 4th Quarter: LPD 18

Technical: Not Applicable

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Exhibit R-2a, RD TEN Project Justification  
(Exhibit R-2a, page 5 of 10)

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<p><b>D. OTHER PROGRAM FUNDING SUMMARY:</b> Not Applicable</p> <p>Related RDT&amp;E: Computer programs developed under these programs are tested in their integrated configuration.</p> <p>PE 0204571N (Consolidated Training Systems Development) PE 0205620N (Surface ASW Combat System Technology) PE 0603382N (Advanced Combat System Technology) PE 0603755N (Ship Self Defense) PE 0603852N (Cooperative Engagement Capability) PE 0604307N (AEGIS Combat Systems Engineering) PE 0604755N (Ship Self Defense) PE 0604518N (CIC Conversion/Common Command and Decision) PE 0603879N (Single Integrated Air Picture) PE 0605853N (CHENG)</p> <p><b>E. ACQUISITION STRATEGY:</b> Not Applicable</p> <p><b>F. MAJOR PERFORMERS:</b></p> <p>Naval Surface Warfare Center, Port Hueneme, CA - Combat System Integration Testing/Battle Force Interoperability effort.</p> <p>Naval Surface Warfare Center, Dahlgren Division, VA - Distributed Engineering Plant (DEP), Battle Force Interoperability Requirements (BFIR), and Battle Force Interoperability Operational Advisory Group (BFI OAG) efforts.</p> <p>Digital Systems Resources, Inc. (DSR), Fair Lakes, VA- Prime contractor for Common Command and Decision (CC&amp;D), Award Date: February 2002</p>		

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Exhibit R-3 Cost Analysis (page 1)							DATE: February 2003					
APPROPRIATION/BUDGET ACTIVITY						PROJECT NUMBER AND NAME						
RDT&E,N/BA-4						S0164/S2865/S2763 CSI/BFI						
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
Combat Sys Integ Testing/SQI	WR/RC	NSWC PHD	7.250	6.909	VAR	8.600	VAR	8.100	VAR	CONT.	CONT.	
Combat Sys Integ Testing/SQI	WR/RC	NSWC DD								CONT.	CONT.	
Combat Sys Integ Testing/SQI	WR/RC	VARIOUS	1.778	1.741		2.041		1.930		CONT.	CONT.	
D-30 Process	WR/RC	NSWC PHD	4.390	2.520	VAR	5.740	VAR	5.383	VAR	CONT.	CONT.	
D-30 Process	WR/RC	NSWC DD								CONT.	CONT.	
D-30 Process	WR/RC/PD	VARIOUS	1.308	1.380	VAR	1.737	VAR	1.666	VAR	CONT.	CONT.	
DEP/BGIT Cert/JDEP	WR/RC	NSWC PHD								CONT.	CONT.	
DEP/BGIT Cert/JDEP	WR/RC	NSWC DD	20.331	14.500		20.253		17.293		CONT.	CONT.	
DEP/BGIT Cert/JDEP	WR/RC/PD	VARIOUS	2.204	1.645	VAR	2.390	VAR	1.890	VAR	CONT.	CONT.	
WOMBAT	WR/RC	NSWC CRANE	1.948	0.000		0.000		0.000		CONT.	CONT.	
BFI Requirements	WR/RC	NSWC DD	1.052	2.079		2.499		2.045		CONT.	CONT.	
BFI Requirements	WR/RC/PD	VARIOUS	1.616	1.513		1.742		1.653		CONT.	CONT.	
Combat System Fixes	WR/RC	NSWC DD	N/A	N/A	VAR	7.432	VAR	0.800	VAR	CONT.	CONT.	
Combat System Fixes	WR/RC	VARIOUS	N/A	N/A		0.000		0.000		CONT.	CONT.	
Combat System Fixes	WR/RC	NSWC DD-CDSA D	N/A	N/A		1.000		0.500		CONT.	CONT.	
Combat System Fixes	WR/RC	VARIOUS	N/A	N/A		0.000		0.000		CONT.	CONT.	
Fix Validation Testing	WR/RC	NSWC DD	N/A	N/A	VAR	1.500	VAR	0.500	VAR	CONT.	CONT.	
CNI	WR/RC	NSWC DD	0.000	0.000		0.000		0.000		CONT.	CONT.	
CNI Contract	VARIOUS	VARIOUS	16.320	15.639		25.028		0.000		CONT.	CONT.	
Contract Engineering Support	VARIOUS	VARIOUS	4.157	4.000	VAR	3.738	VAR	3.618	VAR	CONT.	CONT.	
Contract Program Mgt Support	VARIOUS	VARIOUS	1.450	1.109		1.167		1.100		CONT.	CONT.	
Single Integrated Air Picture	VARIOUS	VARIOUS	0.000	0.000	VAR	1.719	VAR	1.711	VAR	CONT.	CONT.	
HEL	VARIOUS	VARIOUS	0.000	1.650	VAR	0.000		0.000		CONT.	CONT.	
HEL Contracts	VARIOUS	PSU/APL	0.000	1.674	VAR	0.000		0.000		CONT.	CONT.	
USMC	VARIOUS	VARIOUS	0.000	0.489	VAR	0.000		0.000		CONT.	CONT.	
Travel		NAVSEA TRAVEL	0.100	0.200		0.250		0.250		CONT.	CONT.	
										CONT.	CONT.	
Subtotal Product Development			63.904	57.048		86.836		48.439		CONT.	CONT.	
Remarks:												
UNCLASSIFIED												
Exhibit R-3, Project Cost Analysis												

UNCLASSIFIED

Exhibit R-3, Project Cost Analysis


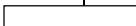

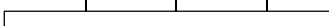










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EXHIBIT R4, Schedule Profile										DATE: February 2003						
APPROPRIATION/BUDGET ACTIVITY RDT&E,N/BA-4				PROGRAM ELEMENT NUMBER AND NAME 0603582N CSI/BFI					PROJECT NUMBER AND NAME S0164/S2865/S2763 CSI/BFI							
Fiscal Year	2002				2003				2004				2005			
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Lincoln BFIT	▲										△					
GW BFIT	▲						△									
Kitty Hawk BFIT	▲						△									
Truman BFIT			▲								△					
Constellation BFIT		▲														
Nimitz BFIT			▲									△				
Roosevelt BFIT				▲											△	
Enterprise BFIT					△								△			
Vinson BFIT				▲												
JFK BFIT									△							△
Stennis BFIT							△									
Reagan BFIT														△		
Eisenhower BFIT															△	
FFG Regression Test				▲												
CV/CVN BLK 0 CSIT				▲												
LHD BLK 0 CSIT				▲												
CVN 68 CSIT				▲												

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UNCLASSIFIED



EXHIBIT R4, Schedule Profile										DATE: February 2003							
APPROPRIATION/BUDGET ACTIVITY RDT&E,NBA-4					PROGRAM ELEMENT NUMBER AND NAME 0603582N CSI/BFI					PROJECT NUMBER AND NAME S0164/S2865/S2763 CSI/BFI							
Fiscal Year	2002				2003				2004				2005				
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
CVN 67 CSIT																	
LHD 1 CSIT																	
FFG 7 CSIT																	
CVN 76 CSIT																	
LSD 41/49 CSIT																	
LPD 17 CSIT																	
CVN 65 CSIT																	
CVN 71 CSIT																	
CVN 72 ACDS BLK 0 CSIT																	
LHD 4 CSIT																	
SSDS MK2 MOD1 CSIT																	
LHD 7 CSIT																	
LHD 8 CSIT																	
LPD 18 CSIT																	

R-1 SHOPPING LIST - Item No. 59

UNCLASSIFIED

**CLASSIFICATION:**

Exhibit R-4a, Schedule Detail					DATE: <b>February 2003</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RDTE&amp;E,N/BA-4</b>	PROGRAM ELEMENT 0603582N CSI/BFI				PROJECT NUMBER AND NAME S0164/S2865/S2763 CSI/BFI			
Schedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
ABRAHAM LINCOLN BFIT	1Q		2Q					
GEORGE WASHINGTON BFIT	1Q	3Q						
KITTY HAWK BFIT	1Q	3Q						
HARRY S. TRUMAN BFIT	3Q		2Q					
NIMITZ BFIT	4Q		4Q					
CONSTELLATION BFIT	2Q							
THEODORE ROOSEVELT BFIT		1Q		3Q				
ENTERPRISE BFIT		2Q		1Q				
CARL VINSON BFIT		1Q						
JOHN F. KENNEDY BFIT		4Q		4Q				
JOHN C. STENNIS BFIT		3Q						
RONALD REAGAN BFIT				2Q				
DWIGHT EISENHOWER BFIT				2Q				
FFG REGRESSION TEST		1Q						
CV/CVN BLOCK 0 CSIT		1Q						
LHD BLOCK 0 CSIT		1Q						
CVN 68 CSIT		2Q						
CVN 67 CSIT		2Q/3Q						
LHD 1 CSIT		2Q/3Q						
FG 7 CSIT		2Q/3Q						
CVN 76 CSIT		3Q/4Q	1Q/2Q					
LSD 41/49 CSIT			1Q					
LPD 17 CSIT			3Q/4Q					
CVN 65 CSIT			3Q					
CVN 71 CSIT			3Q					
CVN 72 ACDS BLK 0 CSIT			3Q					
LHD 4 CSIT			3Q					
SSDS MK2 MOD 1 CSIT			4Q					
LHD 7 CSIT			4Q	1Q				
LHD 8 CSIT				3Q				
LPD 18 CSIT				4Q				

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**UNCLASSIFIED****Exhibit R-4 RDTEN**  
(Exhibit R-4a, Page 10 of 10)