

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification								DATE: February 2002			
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5						R-1 ITEM NOMENCLATURE 0604512N Shipboard Aviation Systems					
COST (\$ in Millions)	Prior Years Cost		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Total PE Cost			10.544	17.965	24.619	18.953	18.719	19.023	19.345	Continuing	Continuing
W2232 CV Launch & Recovery Systems			10.544	16.230	24.619	18.953	18.719	19.023	19.345	Continuing	Continuing
W9071 Shipboard Aviation Information Technology				1.735							1.735
Quantity of RDT&E Articles					3						3
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This Navy unique project addresses the System Development and Demonstration (SDD) of all systems required to recover and launch Navy/Marine Corps aircraft (fixed/rotary wing and Vertical/Short Take-Off and Landing (VSTOL) operating aboard aircraft carriers (CV/CVN), amphibious assault ships (LHA/LHD) and aviation facility ships. This program is funded under SDD because it encompasses engineering and manufacturing development of new end-items prior to production approval decision. This program includes the concept exploration and the development phase of the following systems under Projects W2232, and Project W9071 including the funding of PRMs:</p> <ul style="list-style-type: none"> - (U) Advanced Launch and Recovery Control System (ALRCS), provides a common control, monitoring and maintenance hardware system platform for current steam catapults and future arresting gear. - (U) Virtual Imaging System for Approach and Landing (VISUAL), replaces the LSO HUD and base console. VISUAL provides the LSO and ship's force with real time high-resolution composite video (IR/TVC) imagery of tracked aircraft. -(U) Moriah Wind System (MWS): Integrated digital wind measurement sytem replaces the Type F wind system on CV/CVN and LHA/LHD air capable ships. - (U) Advanced Arresting Gear (AAG): The AAG replaces the MK7 arresting gear engine, which has reached the limits of its operating capability. - (U) Cost Reduction and Effectiveness Improvement Initiative (CREI) Aircraft Carrier Arresting Gear Hydraulic Fluid: This program seeks to replace the unique hydraulic fluid , ethylene glycol , used in the arresting gear systems with a commercially available ethylene glycol product. The commercial product will be less expensive, contain system component protection and will reduce the life cycle cost of the system. -(U) Shipboard Aviation Data Management System Initiative: This initiative will use state-of-the-art information technology and decision support systems to automate the current manual intensive process in collecting and distributing information to enable aviation operations on board aircraft carriers to be accomplished in a more efficient and effective manner. <p>(U) A. JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under SYSTEM DEVELOPMENT and DEMONSTRATION because it encompasses engineering and manufacturing of new end items prior to production approval decision.</p>											

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Exhibit R-2, RDTEN Budget Item Justification
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EXHIBIT R-2a, RDT&E Project Justification								DATE: February 2002			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5		PROGRAM ELEMENT NUMBER AND NAME 0604512N Shipboard Aviation Systems				PROJECT NUMBER AND NAME W2232 CV Launch & Recovery Systems					
COST (\$ in Millions)	Prior Years Cost		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost			10.544	16.230	24.619	18.953	18.719	19.023	19.345	Continuing	Continuing
RDT&E Articles Qty					3						3

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This Navy unique project addresses the System Development and Demonstration (SDD) of all systems required to recover and launch Navy/Marine Corps aircraft (fixed/rotary wing and Vertical/Short Take-Off and Landing (VSTOL) operating aboard aircraft carriers (CV/CVN), amphibious assault ships (LHA/LHD) and aviation facility ships. This program is funded under SDD because it encompasses engineering development and demonstration of new end-items prior to production approval decision. This program includes the system development phase of the following systems under Project W2232, including the funding of production representative models (PRM): This program includes concept exploration and system development and demonstration of shipboard aviation data management systems required to automate manual processes during aviation operations on board aircraft carriers under Project W9071:

- (U) Advanced Launch and Recovery Control System (ALRCS): ALRCS introduces modern, modularized computer control systems to the catapults and arresting gear on aircraft carriers, which will support Condition Based Maintenance (CBM), enhance performance, and reduce life cycle costs.
- (U) Moriah Wind System (MWS): Moriah Wind System replaces current analog wind system with an integrated digital wind measurement system which will be an affordable, LAN compatible, wind suite for all classes of air capable Navy ships.
- (U) Virtual Imaging System for Approach and Landing (VISUAL): VISUAL provides ship's force and Landing Signal Officer (LSO) with enhanced images of the aircraft during recovery operations in low visibility, day and night conditions.
- (U) Advanced Arresting Gear (AAG): The AAG replaces the MK7 arresting gear, which has reached the limits of its operating capability.
- (U) Cost Reduction and Effectiveness Improvement Initiative (CREI) (Aircraft Carrier Arresting Gear Hydraulic Fluid): This program seeks to replace the unique hydraulic fluid, ethylene glycol, used in the arresting gear systems with a commercially available ethylene glycol product. The commercial product will be less expensive, contain system component projection, and will reduce the life cycle cost of the systems.
- (U) Shipboard Aviation Data Management System Initiative: This initiative will use state-of-the-art information technology and decision support systems to automate the current manual intensive process in collecting and distributing information to enable aviation operations on board aircraft carriers to be accomplished in a more efficient and effective manner.

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2002
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604512N Shipboard Aviation Systems	PROJECT NUMBER AND NAME W2232 CV Launch & Recovery Systems
<p>(U) PROGRAM ACCOMPLISHMENTS AND PLANS:</p> <p>1. FY 2001 ACCOMPLISHMENTS:</p> <ul style="list-style-type: none"> - (U) (\$7.880) VISUAL - Conducted VISUAL Critical Design Review (CDR) and initiated fabrication of two (2) CV/CVN PRM units. Provided engineering and management support to the program. - (U) (\$1.400) MWS - Finalized technical specifications and released RFP to industry. Initiated source selection activities. Provided engineering and management support to the program. - (U) (\$1.264) ALRCS - Continued development of ALRCS system architecture and performance specification. Developed Recovery Control System Interface Control Document and specifications to support AAG development program. Established ALRCS development lab operations and initiated sensor/software studies to determine workload and manning reduction impacts for candidate automation initiatives. Provided engineering and management support to the program. <p>2. FY 2002 PLANS:</p> <ul style="list-style-type: none"> - (U) (\$6.172) VISUAL - Complete Fabrication of two (2) CV/CVN PRM units and conduct integration/test efforts. Provide engineering and management support to the program. - (U) (\$1.751) MWS - Receive MS B approval and award SDD contract. Complete PDR and CDR. Provide engineering and management support to the program. - (U) (\$1.374) ALRCS - Solicit industry for technology , system solutions and prepare technical specification requirements. Merge/combine efforts into Avanced Arresting Gear program. Provide engineering and management support to the program. - (U) (\$6.367) AAG- Finalize and release RFP to industry. Prepare for and recieve Milestone B approval and award SDD contract. Complete System Requirements Review. Initiate system design efforts for AGG including preliminary design. Evaluate critical technologies through modeling and simulation, subscale component, subsystem and system testing. Provide engineering and management support to the program. - (U) (\$0.075) CREI - Conduct PDR for Commercial Arresting Gear hydraulic fluid in support of Cost Reduction & Effectiveness Improvement Initiative (CREI). - (U) (\$0.491) - Portion of extramural program reserved for Small Business Innovation Research assessment. 		

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604512N Shipboard Aviation Systems	February 2002
PROJECT NUMBER AND NAME W2232 CV Launch & Recovery Systems		
<p>(U) PROGRAM ACCOMPLISHMENTS AND PLANS: continued</p> <p>3. FY 2003 PLANS:</p> <ul style="list-style-type: none">- (U) (\$7.769) VISUAL - Deliver two (2) CV/CVN PRM units. Complete environmental/EMI/R&M lab and conduct landbased/shipboard developmental testing. Provide engineering and management support to the program. Award LH development contract option.- (U) (\$2.311) MWS - Deliver Moriah PRM. Initiate and complete developmental testing. Provide engineering management support for the program.- (U) (\$14.355) AAG - Continue preliminary design and initiate test site planning. Continue to evaluate critical technologies through subscale component and subsystem testing. Complete PDR and provide engineering and management support to the program.- (U) (\$0.184) CREI - Conduct dead-load testing on selected alternative hydraulic fluids. Initiate development testing of commercial Arresting Gear hydraulic fluid recycle.		

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EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2002
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N / BA-5	0604512N Shipboard Aviation Systems	W2232 - CV Launch & Recovery Systems	
(U) B. PROGRAM CHANGE SUMMARY:			
	<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>
(U) FY 2002 President's Budget:	9.627	16.375	
(U) Adjustments from the President's Budget:	0.917	-0.145	
(U) FY 2003 President's Budget Submit:	10.544	16.230	24.619
CHANGE SUMMARY EXPLANATION:			
(U) Funding:			
-The FY 2001 net increase of \$0.917 reflects a \$1.431 million increase to fund the VISUAL program offset by a \$0.290 million reduction for a Small Business Innovation Research assessment and a			
\$0.224 million decrease for reprioritization of requirements within the Navy.			
-The FY 2002 decrease of \$.145 million is for an undistributed congressional reduction.			

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EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2002		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5		PROGRAM ELEMENT NUMBER AND NAME 0604512N Shipboard Aviation Systems			PROJECT NUMBER AND NAME W2232 - CV Launch & Recovery Systems			
<p>(U) Schedule: Moriah program slipped due to delays in receiving program documentation and directed changes to the acquisition strategy. Moriah finalized program specifications and engaged industry for presolicitation comments. These changes have caused the following modifications to the Moriah Wind System effort. Moriah PRM award scheduled for 3Q/01 has slipped to 2Q/02 and the Moriah RFP has slipped from 1Q/01 to 1Q/02. Moriah PDR scheduled for 4Q/01 has been moved to 3Q/02. Moriah CDR scheduled for 1Q/02 has moved to 4Q/02. Moriah MS B has moved from 3Q/01 to 2Q/02 and MS C has moved from 4Q/02 to 2Q/04. Moriah developmental testing has moved from 1Q-3Q/02 to 4Q/03 and operational testing has moved from 3Q/02 to 1Q/04. VISUAL effort has slipped one year to the right due to unscheduled delays and program cost growth. VISUAL DT/OT and MS C delays reflect new SDD contractor's planned schedule. VISUAL developmental tests scheduled for 3Q-4Q/02 have slipped to 1Q-4Q/03. Additionally, the two L-class EDM units scheduled for delivery in FY02 have been cancelled. Common components of CV EDM units will be modified for LH testing. VISUAL(CV) milestone C has moved from 3Q/03 to 3Q/04. VISUAL (LH) OT slipped from 1Q/04 to 1Q/05 and VISUAL (CV) OT has moved from 1Q/03 to 1Q/04. VISUAL (LH) DT has been rescheduled from 3-4Q/03 to 3-4Q/04. All ALRCS milestones have been incorporated into the AAG program. CREI PDR has slipped from 2Q/02 to 4Q/02;</p> <p>(U) Technical: ALRCS implementation and funding transferred to AAG beginning in FY03. ALRCS provides the enhanced control system embedded training, condition-based maintenance, etc. portion of AAG. Merging the two programs will reduce technical risk.</p>								
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>To Complete</u>
OPN (Aircraft Launch & Recovery Equipment, 43SJ)	36.092	27.115	19.355	20.871	22.420	32.837	34.079	Continuing
<p>Related RDT&E P.E. 0603512N (Carrier Systems Development)</p>								

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604512N Shipboard Aviation Systems	February 2002
<p>(U) D. ACQUISITION STRATEGY:</p> <p>MWS: Moriah Wind System. The Navy has prepared a performance specification and will competitively award an IDIQ contract to cover SDD (CPIF) and production requirements (FFP).</p> <p>VISUAL: Virtual Imaging System for Approach and Landing. The Navy prepared a performance specification and competitively awarded a cost plus incentive fee contract to develop/deliver PRMs, with fixed-price successive target production options. LH system development is a contractual option</p> <p>ALRCS: Advanced Launch and Recovery Control System will become part of Advanced Arresting Gear program. Advanced Launch control System deferred pending redefinition of launch process under Electromagnetic Aircraft Launcher Systems program.</p> <p>AAG: Advanced Arresting Gear. The Navy will competitively award a cost incentive System Development and Demonstration contract to develop the AAG for evaluation at the NAWCADLKE Runway Arrested Landing Site followed by a fixed price contract award for production.</p> <p>CREI: Cost Reduction and Effectiveness Improvement. The Navy will competitively award a prototype contract of a commercial fluid. The Navy will laboratory test commercial samples and then award and test one engines worth of fluid.</p>		

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Exhibit R-2, RDTE Budget Item Justification
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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME																											
RDT&E, N / BA-5	0604512N Shipboard Aviation Systems	W2232 CV Launch & Recovery Systems																											
<p>(U) E. SCHEDULE PROFILE:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;"></th> <th style="width: 20%; text-align: center;"><u>FY 2001</u></th> <th style="width: 20%; text-align: center;"><u>FY 2002</u></th> <th style="width: 20%; text-align: center;"><u>FY 2003</u></th> <th style="width: 20%; text-align: center;"><u>TO COMPLETE</u></th> </tr> </thead> <tbody> <tr> <td>(U) Program Milestones</td> <td></td> <td>Moriah: 2Q/02 MS B AAG: 2Q/02 MS B</td> <td></td> <td>VISUAL(CV): 3Q/04MS C VISUAL (LH) 3Q/05 MS C Moriah: 2Q/04 MS C AAG: 2Q/08 MS C</td> </tr> <tr> <td>(U) Engineering Milestones</td> <td>VISUAL (CV): 1Q/01 CDR</td> <td>AAG: 2Q/02 SRR Moriah: 3Q/02 PDR Moriah: 4Q/02 CDR CREI: 4Q/02 PDR</td> <td>AAG: 4Q/03 PDR</td> <td>AAG: 4Q/04 CDR</td> </tr> <tr> <td>(U) T&E Milestones</td> <td></td> <td>CREI: 2Q/02 CDR</td> <td>Moriah: 4Q/03 DT VISUAL(CV): 1Q-4Q/03 DT CREI: 2Q/03 DT</td> <td>VISUAL(LH): 1Q/05 OT VISUAL(CV):1Q/04 OT VISUAL(LH): 3Q-4Q/04 DT Moriah: 1Q/04 OT AAG: 2Q/06 - 2Q/07 - DT AAG: 3Q/07-4Q/07 - OT</td> </tr> <tr> <td>(U) Contract Milestones</td> <td></td> <td>AAG: 2Q/02 SSD AWARD Moriah: 2Q/02 SSD AWARD Moriah: 1Q/02 RFP</td> <td></td> <td></td> </tr> </tbody> </table>						<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>TO COMPLETE</u>	(U) Program Milestones		Moriah: 2Q/02 MS B AAG: 2Q/02 MS B		VISUAL(CV): 3Q/04MS C VISUAL (LH) 3Q/05 MS C Moriah: 2Q/04 MS C AAG: 2Q/08 MS C	(U) Engineering Milestones	VISUAL (CV): 1Q/01 CDR	AAG: 2Q/02 SRR Moriah: 3Q/02 PDR Moriah: 4Q/02 CDR CREI: 4Q/02 PDR	AAG: 4Q/03 PDR	AAG: 4Q/04 CDR	(U) T&E Milestones		CREI: 2Q/02 CDR	Moriah: 4Q/03 DT VISUAL(CV): 1Q-4Q/03 DT CREI: 2Q/03 DT	VISUAL(LH): 1Q/05 OT VISUAL(CV):1Q/04 OT VISUAL(LH): 3Q-4Q/04 DT Moriah: 1Q/04 OT AAG: 2Q/06 - 2Q/07 - DT AAG: 3Q/07-4Q/07 - OT	(U) Contract Milestones		AAG: 2Q/02 SSD AWARD Moriah: 2Q/02 SSD AWARD Moriah: 1Q/02 RFP		
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>TO COMPLETE</u>																									
(U) Program Milestones		Moriah: 2Q/02 MS B AAG: 2Q/02 MS B		VISUAL(CV): 3Q/04MS C VISUAL (LH) 3Q/05 MS C Moriah: 2Q/04 MS C AAG: 2Q/08 MS C																									
(U) Engineering Milestones	VISUAL (CV): 1Q/01 CDR	AAG: 2Q/02 SRR Moriah: 3Q/02 PDR Moriah: 4Q/02 CDR CREI: 4Q/02 PDR	AAG: 4Q/03 PDR	AAG: 4Q/04 CDR																									
(U) T&E Milestones		CREI: 2Q/02 CDR	Moriah: 4Q/03 DT VISUAL(CV): 1Q-4Q/03 DT CREI: 2Q/03 DT	VISUAL(LH): 1Q/05 OT VISUAL(CV):1Q/04 OT VISUAL(LH): 3Q-4Q/04 DT Moriah: 1Q/04 OT AAG: 2Q/06 - 2Q/07 - DT AAG: 3Q/07-4Q/07 - OT																									
(U) Contract Milestones		AAG: 2Q/02 SSD AWARD Moriah: 2Q/02 SSD AWARD Moriah: 1Q/02 RFP																											

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Exhibit R-3 Cost Analysis (page 2)									DATE: February 2002			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5			PROGRAM ELEMENT 0604512N Shipboard Aviation Systems			PROJECT NUMBER AND NAME W2232 CV Launch & Recovery Systems						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
DT - (VISUAL/Moriah/CREI)	WX	NAWCAD,Lakehurst						2.150	11/02		2.150	
Operational testing(VISUAL/Moriah)	WX	NAWCAD,Lakehurst								0.250	0.250	
Subtotal T&E								2.150		0.250	2.400	
Remarks:												
Program Management Support	RX	NAWCAD Patuxent River		0.207	03/01	0.210	05/02	0.214	05/03	Continuing	Continuing	
Travel	WX	NAWCAD Patuxent River		0.035	11/00	0.035	10/01	0.035	10/02	Continuing	Continuing	
SBIR Assessment						0.491					0.491	
Subtotal Management				0.242		0.736		0.249		Continuing	Continuing	
Remarks:												
Total Cost			36.411	10.544		16.230		24.619		Continuing	Continuing	
Remarks:												

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5		PROGRAM ELEMENT NUMBER AND NAME 0604512N Shipboard Aviation Systems				PROJECT NUMBER AND NAME W9071 Aviation-Shipboard Information Technology					
COST (\$ in Millions)	Prior Years Cost		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost				1.735							1.735
RDT&E Articles Qty Not Applicable											

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. FY 2001 ACCOMPLISHMENTS: Not Applicable.
2. FY 2002 PLANS:
 - (U) (\$1.735) Define and document overall system requirements and system architecture for future development, test and production and shipboard installation.
3. FY 2003 PLANS: Not applicable.

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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N / BA-5	0604512N Shipboard Aviation Systems	W9071 Aviation-Shipboard Information Technology	
(U) B. PROGRAM CHANGE SUMMARY:			
	<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>
(U) FY 2002 President's Budget:		0.000	
(U) Adjustments from the President's Budget:		1.735	
(U) FY 2003 Presidents's Budget:		1.735	
CHANGE SUMMARY EXPLANATION:			
(U) Funding: The FY 2002 net increase of \$1.735 million consists of a Congressional increase of \$1.750 million offset by a decrease of \$0.015 million for an undistributed Congressional reduction.			
(U) Schedule: Not Applicable.			
(U) Technical: Not Applicable.			

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Exhibit R-2, RDTEN Budget Item Justification
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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604512N Shipboard Aviation Systems			PROJECT NUMBER AND NAME W9071 Aviation-Shipboard Information Technology				
(U) C. OTHER PROGRAM FUNDING SUMMARY:								
Not Applicable	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>To Complete</u>
Related RDT&E: Not Applicable								
(U) D. ACQUISITION STRATEGY:								
Fiscal year 2002 NAWCAD Lakehurst activity to define requirements and system architecture with engineering support from industry as required. Follow on strategy to develop, test, and produce system will be determined upon identification of follow on funding.								
(U) E. SCHEDULE PROFILE:								
(U) Program Milestones		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>		<u>TO COMPLETE</u>
(U) Engineering Milestones				Define System Reqmts-3Q/02 Define System Architecture-4Q/02				
(U) T&E Milestones								
(U) Contract Milestones								

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Exhibit R-3 Cost Analysis (page 1)										DATE: February 2002		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5			PROGRAM ELEMENT 0604512N Shipboard Aviation Systems			PROJECT NUMBER AND NAME W9071 Aviation-Shipboard Information Technology						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development												
Ancillary Hardware Development												
Systems Engineering	WX	Lakehurst				1.735					1.735	
Licenses												
Tooling												
GFE												
Award Fees												
Subtotal Product Development						1.735					1.735	
Remarks:												
Development Support Equipment												
Software Development												
Training Development												
Integrated Logistics Support												
Configuration Management												
Technical Data												
GFE												
Subtotal Support												
Remarks:												

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5			PROGRAM ELEMENT 0604512N - Shipboard Aviation Systems			PROJECT NUMBER AND NAME W9071 Aviation-Shipboard Information Technology						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation												
Operational Test & Evaluation												
Tooling												
GFE												
Subtotal T&E												
Remarks:												
Contractor Engineering Support												
Government Engineering Support												
Program Management Support												
Travel												
Labor (Research Personnel)												
Overhead												
Subtotal Management												
Remarks:												
Total Cost								1.735			1.735	
Remarks:												

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