

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-7					R-1 ITEM NOMENCLATURE 0305205N High Altitude Endurance Unmanned Aerial Vehicles			
COST (\$ in Millions)	FY 2002	FY 2003*	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Total PE Cost			101.448	281.743	240.556	174.090	92.705	47.707
A3061 Global Hawk Maritime Demo Sys*			76.358	57.316	53.409	54.256	48.155	47.707
A4020 BAMS UAV			25.090	224.427	187.147	119.834	44.550	0
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: * In FY 2003, Global Hawk Maritime Demonstration System budgeted in PE 0305204N, Tactical Unmanned Aerial Vehicles.								
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This program provides for the development of High Altitude Endurance (HAE) Unmanned Aerial Vehicle (UAV) Systems for DoD that provide warfighters with the dedicated capability for Broad Area Maritime Surveillance as a standoff persistent, Intelligence, Surveillance and Reconnaissance (ISR) asset. This program includes:								
1) Global Hawk Maritime Demonstration (GHMD) System. The Secretary of the Navy directed procurement of two USAF Global Hawk systems to include the air vehicle and associated support equipment, and integration of maritime payloads, sensors, SIGINT and communications for demonstration and experimentation purposes. The GHMD System will serve as: 1) A Fleet asset for the development of UAV Concept of Operations (CONOPS), tactics, techniques and procedures and cultural building for Navy High Altitude Endurance (HAE) UAVs; and, 2) An enduring test bed for the development, integration and testing of alternate sensors, payloads, communications, and SIGINT for the study system integration for air/ground/afloat assets. This project was initiated in FY 2003 in PE 0305204N, VTUAV.								
2) Broad Area Maritime Surveillance (BAMS) UAV. The BAMS UAV is a formal acquisition program for the development and fielding of an HAE UAV for the Maritime/Littoral environment, with an FY 2009 IOC. The BAMS UAV will provide Carrier Battle Group (CVBG) and Amphibious Ready Group (ARG) Commanders with a persistent Intelligence, Surveillance and Reconnaissance capability in concert with other manned and unmanned assets. BAMS UAV will consist of air vehicles, ground systems, sensors, communications and SIGINT capabilities optimized for the Maritime/Littoral environment, and will be integrated with other manned and unmanned assets to perform surveillance and reconnaissance of maritime and land targets, strike support, signals intelligence, communications relay, and other ISR missions. The BAMS UAV program is structured to meet the need for persistent ISR as other ISR platforms, specifically the P-3 and EP-3, begin to reach life expectancy in FY08. Although BAMS UAV will not be a one-for-one replacement for any manned platforms, BAMS provides a transformational capability for the Navy.								
The BAMS UAV concept derives from the analysis conducted during the Broad Area Maritime and Littoral Armed ISR AoA (Multi-mission Maritime Aircraft), which identified the significance of an UAV adjunct to manned platforms. The MMA AoA determined that properly equipped UAVs may fill shortfalls in Combatant Commanders' requirements not currently affordable. BAMS UAV leverages the BAMS and Littoral Armed ISR and Long Endurance, Reconnaissance, Surveillance and Target Acquisition (RSTA) Capability Mission Needs Statements (MNS).								

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EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							February 2003	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME			
RDT&E, N / BA-7	0305205N Endurance Unmanned Aerial Vehicles				A3061 Global Hawk Maritime Demonstration System			
COST (\$ in Millions)	FY 2002	FY 2003*	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
A3061 Global Hawk Maritime Demo System			76.358	57.316	53.409	54.256	48.155	47.707
RDT&E Articles Qty								
<p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>This program was initiated in FY 2003 in Program Element 0305204N, Tactical UAV. It was subsequently determined that the High Altitude Endurance UAV Program Element, PE 0305205N, was the more appropriate line for this effort.</p> <p>The Navy has identified the need for a long-range and long-dwell UAV capable of providing maritime/land ISR, standoff strike support, and SIGINT collection. The Air Force GLOBAL HAWK can be used in this capacity with the development of a maritime payload. The Navy will utilize the existing Air Force contract to procure a system for experimentation and developmental assets outfitted with maritime mission oriented sensors.</p> <p>The Secretary of the Navy directed acquisition of a Global Hawk Maritime Demonstration (GHMD) System to develop the Concept of Operations (CONOPS), tactics, techniques and procedures (TTPs) in support of maritime reconnaissance and strike support mission areas. The GHMD system will also serve as an enduring unmanned test bed that can be used to demonstrate advanced payloads, alternate sensors, autonomous decision aides, and command, control and communications systems for incorporation into future naval warfighting systems and cultural building for U.S. Navy (USN) High Altitude Endurance (HAE) Unmanned Aerial Vehicles (UAVs).</p> <p>The GHMD System will be designed to demonstrate CONOPS for a long-dwell, all weather, day/night, wide area maritime intelligence, surveillance and reconnaissance (ISR) and include communication/interfaces with other theater systems required to support Carrier Battle Group Commanders, Fleet Commanders, as well as joint tactical war fighters at various levels. The GHMD System will be a fully autonomous, high altitude, long endurance UAV that is directly responsive to theater tasking and designed to operate in low-to-moderate defensive threat environments. The GHMD System will consist of two RQ-4A Unmanned Aerial Vehicles (UAVs), an AN/MSQ-131 Ground segment which includes the mission control element (MCE) and the launch and recovery element (LRE); and radar, electro-optical/infrared (EO/IR), and Signals Intelligence (SIGINT) sensors optimized for the maritime environment. The USN will leverage the U.S. Air Force (USAF) low rate initial production (LRIP) and engineering and manufacturing ground station, communication suite, payload, sensor and data dissemination in support of the maritime surveillance requirements.</p> <p>The FY 2004 program adds a more robust radar, a turreted EO/IR sensor and a SIGINT capability. In FY05-FY09, the GHMD System will be used as an enduring test bed for experimentation and demonstration to support CONOPS development. The experimentation and demonstration will refine CONOPS and TTPs for wide area surveillance and reconnaissance of maritime and land targets, strike support, SIGINT, and communication relay capabilities. The USN will leverage industry efforts and USAF programs to integrate and improve maritime payloads and sensors to provide a multi-intelligence sensor suite with 360 degrees of continuous coverage and will integrate the GHMD program via the Tactical Control System (TCS) onto shipboard platforms.</p>								

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	PROGRAM ELEMENT NUMBER AND NAME 0305205N Endurance Unmanned Aerial Vehicles	PROJECT NUMBER AND NAME A3061 Global Hawk Maritime Demonstration System																	
(U) B. Accomplishments/Planned Program																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 15%; text-align: center;">FY 02</td> <td style="width: 15%; text-align: center;">FY 03</td> <td style="width: 15%; text-align: center;">FY 04</td> <td style="width: 15%; text-align: center;">FY 05</td> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td></td> <td></td> <td style="text-align: center;">60.000</td> <td style="text-align: center;">40.000</td> </tr> <tr> <td>RDT&E Articles Quantity</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						FY 02	FY 03	FY 04	FY 05	Accomplishments/Effort/Subtotal Cost			60.000	40.000	RDT&E Articles Quantity				
	FY 02	FY 03	FY 04	FY 05															
Accomplishments/Effort/Subtotal Cost			60.000	40.000															
RDT&E Articles Quantity																			
<p>Continued development of GHMD system (initiated in FY 2003 in PE 0305204N), to include:</p> <ul style="list-style-type: none"> -Acquisition of air vehicle, LRE, MCE, payload test assets and associated support equipment; -Development and integration of maritime modes in Integrated Sensor Suite (ISS), payloads, SIGINT and communications; -TCS/TSC/MCE platform integration; -Developmental Testing of radar, payloads, sensors, SIGINT and communications. -Initiate Fleet demonstration&experimentation using GHMD as an eduring test bed, to include integration/testing/evaluation/validation of alternate payloads, sensors, SIGINT and Comms. 																			
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	FY 02	FY 03	FY 04	FY 05															
Accomplishments/Effort/Subtotal Cost			15.073	16.031															
RDT&E Articles Quantity																			
<p>Continued government and contractor engineering including, systems engineering, system certification, logistics analysis, planning for test & evaluation of maritime payloads, JTIC/Interoperability certification, test facility infrastructure preparation, and C4I study, assessment of the contractor's compliance with security requirements. The FY 2004 program also supports NIMA, JTA compliance analysis and test agency planning for the demonstration efforts, satellite coordination efforts and the shipboard integration efforts. The FY 2005 program continues government and contractor engineering support, including systems engineering, system certification, program management, logistics analysis, flight test & evaluation of maritime payloads, JTIC/Interoperability certification, flight test range charges and network connectivity charges, NIMA support, JTA certification, test agency support evaluations of Fleet Battle Experiment-Mike and other GHMD Demonstration efforts, completion of SPAWAR's C4I study, security certification, and satellite coordination efforts, and shipboard integration efforts.</p>																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 15%; text-align: center;">FY 02</td> <td style="width: 15%; text-align: center;">FY 03</td> <td style="width: 15%; text-align: center;">FY 04</td> <td style="width: 15%; text-align: center;">FY 05</td> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td></td> <td></td> <td style="text-align: center;">1.285</td> <td style="text-align: center;">1.285</td> </tr> <tr> <td>RDT&E Articles Quantity</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						FY 02	FY 03	FY 04	FY 05	Accomplishments/Effort/Subtotal Cost			1.285	1.285	RDT&E Articles Quantity				
	FY 02	FY 03	FY 04	FY 05															
Accomplishments/Effort/Subtotal Cost			1.285	1.285															
RDT&E Articles Quantity																			
<p>Government, Contractor and Program Management Support.</p>																			

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY RDTE, N / BA-7	PROGRAM ELEMENT NUMBER AND NAME 0305205N Endurance Unmanned Aerial Vehicles	PROJECT NUMBER AND NAME A3061 Global Hawk Maritime Demonstration System		

(U) C. PROGRAM CHANGE SUMMARY:

	FY 2002	FY 2003*	FY 2004	FY 2005
(U) Funding:				
FY 2003 President's Budget:			0.000	0.000
Current BES/President's Budget:			76.358	57.316
Total Adjustments			76.358	57.316
Summary of Adjustments				
Congressional Undistributed Reductions				
Economic Assumptions				-1.236
Congressional Increases				
Other Navy/OSD Adjustments			76.358	58.552
Subtotal			76.358	57.316

*In FY03, Global Hawk Maritime Demonstration System funded in PE 0305204N, Tactical Unmanned Aerial Vehicles.

(U) Schedule: Not applicable

(U) Technical: Not applicable

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7		PROGRAM ELEMENT NUMBER AND NAME 0305205N Endurance Unmanned Aerial Vehicles		PROJECT NUMBER AND NAME A3061 Global Hawk Maritime Demonstration System			
(U) D. OTHER PROGRAM FUNDING SUMMARY:							
Line Item No. & Name	<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>FY 2008</u> <u>FY 2009</u>
PE 0305204N		189.350					
(U) E. ACQUISITION STRATEGY:							
The USN GHMD program is an experimentation and demonstration effort. Development of the GHMD assets will leverage the USAF LRIP Fixed-Price Incentive (FPI) contract for purchase of the baseline GHMD System and EMD Cost-Plus Award Fee (CPAF) contract for the development the maritime Integrated Sensor Suite and payloads.							

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Exhibit R-3 Cost Analysis (page 1)								DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-7			0305205N Endurance Unmanned Aerial Vehicles			A3061 Global Hawk Maritime Demonstration System						
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	MIPR	WPAFB/NGIS				60.000	12/03	40.000	12/04	Continuing	Continuing	
Subtotal Product Development			0.000	0.000		60.000		40.000		Continuing	Continuing	
Remarks:												
Development Support												
Software Development	WX	NIMA, Washington, DC				5.000	12/03	5.000	12/04	Continuing	Continuing	
Integrated Logistics Support	WX	Various				1.000	12/03	1.000	12/04	Continuing	Continuing	
Government Engineering Support	WX	Various				7.283	11/03	8.241	11/04	Continuing	Continuing	
Subtotal Support			0.000	0.000		13.283		14.241		Continuing	Continuing	
Remarks:												

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Exhibit R-3 Cost Analysis (page 2)										DATE: February 2003		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7			PROGRAM ELEMENT 0305205N Endurance Unmanned Aerial Vehicles			PROJECT NUMBER AND NAME A3061 Global Hawk Maritime Demonstration System						
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						1.790	11/03	1.790	11/04	Continuing	Continuing	
Subtotal T&E			0.000	0.000		1.790		1.790		Continuing	Continuing	
Remarks:												
Contractor Engineering Support	WX	NAWCAD, Pax River, MD				0.535	11/03	0.535	11/04	Continuing	Continuing	
Program Management Support	WX	NAWCAD, Pax River, MD				0.500	11/03	0.500	11/04	Continuing	Continuing	
Travel	WX	NAWCAD, Pax River, MD				0.250	11/03	0.250	11/04	Continuing	Continuing	
Subtotal Management			0.000	0.000		1.285		1.285		Continuing	Continuing	
Remarks:												
Total Cost			0.000	0.000		76.358		57.316		Continuing	Continuing	

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EXHIBIT R4, Schedule Profile																								DATE:				February 2003													
APPROPRIATION/BUDGET ACTIVITY									PROGRAM ELEMENT NUMBER AND NAME												PROJECT NUMBER AND NAME																				
RDT&E, N / BA-7									0305205N Endurance Unmanned Aerial Vehicles												A3061 Global Hawk Maritime Demonstration System																				
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									
Program Milestones					Award SRR	△	△	IBR		Design Review △			TRR △		TRR △						TRR △						TRR △														
System HW Procurement						[Bar]																																			
Maritime Radar System Integration						[Bar]																																			
Maritime Sensor Integration						[Bar]																																			
Maritime Payload Integration and Test													↓	[Bar]																											
Alternate Payload Integ/Test (Enduring Test Bed)																	[Bar: Robust SIGINT, LINK-16, COMM]																								
Shipboard Integration																																									
TCS Integration																																									
Deliveries																																									
Air Vehicle 1																																									
Air Vehicle 2																																									
LRE																																									
MCE																																									
Test & Demonstration Milestones																																									
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Exhibit R-4a, Schedule Detail
(Exhibit R-4a, page 9 of 17)

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7		PROGRAM ELEMENT NUMBER AND NAME 0305205N Endurance Unmanned Aerial Vehicles			PROJECT NUMBER AND NAME A4020 BAMS UAV			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
A4020 BAMS UAV			25.090	224.427	187.147	119.834	44.550	0.000
RDT&E Articles Qty				2				
<p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>The Broad Area Maritime Surveillance (BAMS) UAV is a formal acquisition program for the development and fielding of an HAE UAV for the Maritime/Littoral environment, with an FY09 IOC. The BAMS UAV will provide Carrier Battle Group (CVBG) and Amphibious Ready Group (ARG) Commanders with a persistent Intelligence, Surveillance and Reconnaissance capability in concert with other manned and unmanned assets. BAMS UAV will consist of air vehicles, ground systems, sensors, communications and SIGINT capabilities optimized for the Maritime/Littoral environment, and will be integrated with other manned and unmanned assets to perform intelligence, surveillance and reconnaissance of maritime and land targets, strike support, signals intelligence and other IRS missions. The BAMS UAV program is structured to meet the need for persistent ISR as other ISR platforms, specifically the P-3 and EP-3, begin to reach life expectancy. BAMS UAV provides a transformational capability for the Navy.</p> <p>The BAMS UAV concept derives from the analysis conducted during the Broad Area Maritime and Littoral Armed ISR AoA (Multi-mission Maritime Aircraft), which identified the significance of an UAV adjunct to manned platforms. The MMA AoA determined that properly equipped UAVs may fill shortfalls in Combatant Commanders' requirements not currently affordable. BAMS UAV leverages the BAM and Littoral Armed ISR and Long Endurance, Reconnaissance, Surveillance and Target Acquisition (RSTA) Capability Mission Needs Statements (MNS).</p>								

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(U) B. Accomplishments/Planned Program				
	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost			12.000	186.000
RDT&E Articles Quantity				
<p>Initiate System Demonstration and Development, to include:</p> <p>FY 2004: Requirements flow-down and initiation of functional and detailed system specifications, including post-award conference.</p> <p>FY 2005: -Continue development of system functional and detailed specifications.</p> <p>-Conduct PDR and initiate development test articles to include airframes, sensors, payloads, ground elements and comms (Maritime Synthetic Aperature Radar, turreted EO/IR Sensor, Communications Suite , SIGINT), Automatic Target Recognition/Cueing, Tactical Control System/Tactical Support Center/CV integration.</p> <p>-BAMS system software development.</p> <p>-Development and acquisition of a systems integration capability, including modeling and simulation, test equipment and software development tools.</p> <p>-Integration of airframes/sensor/payloads/comms and ground elements.</p>				
	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost			10.805	35.590
RDT&E Articles Quantity				
<p>Initiates System Demonstration and Development in FY2004 for system requirements flow down. This includes the development of Maritime Radar, EO/IR Sensor, Communications Suite , SIGINT, Automatic Target Recognition/Cueing, Tactical Control System/Tactical Support Center/CV integration., and the acquisition of air vehicle and associated ground control test assets.</p> <p>Initiates Government and contractor engineering, including, systems engineering, logistics analysis, model & simulation, system test & evaluation planning, assessment of the contractor's compliance with security requirements. The FY 2004 program also supports NIMA, JTA compliance analysis and test agency planning for the DT/OTefforts, satellite coordination efforts and the shipboard integration efforts. The FY 2005 program continues government and contractor engineering, including systems engineering, flight clearance and system certification data collection, logistics analysis, JITC/Interoperability certification, NIMA support, JTA certification, security certification, satellite coordination efforts, and shipboard integration efforts.</p>				
	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost			2.285	2.237
RDT&E Articles Quantity				
<p>Government , Contractor and Program Management Support.</p>				

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(U) Funding:																																																	
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(U) D. OTHER PROGRAM FUNDING SUMMARY:								
Line Item No. & Name APN 044200 BAMS UAV	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u> 202.203	<u>FY 2008</u> 370.590	<u>FY 2009</u> 440.229
(U) E. ACQUISITION STRATEGY:								
<p>The BAMS UAV acquisition strategy represents a competitive acquisition approach focused towards rapidly fielding an ISR capability and achieving an FY-09 Initial Operational Capability (IOC). In order to support the competition strategy, commercial off-the-shelf (COTS) technology will be utilized to the greatest extent possible for all segments of the BAMS UAV system (i.e., air vehicle, ground segment and payloads). The Navy's intent is to compete the SD&D contract with options for Low Rate Initial Production.</p>								
<p>The BAMS UAV will be a spiral, milestone based acquisition, entering the System Development and Demonstration (SDD) phase with a Milestone B decision at the end of 3QFY04. As an extension Maritime Patrol and Reconnaissance Study, and building on the MMA AoA Adjunct Study, and AoA is underway and will be completed in April 2003. The AoA is examining the air vehicle, payload, sensor, SIGINT, and communications options to determine an optimal configuration baseline. In parallel, an acquisition plan is in process that maximizes the use of competitive strategies.</p>								

R-1 SHOPPING LIST - Item No. 205

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CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)								DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-7			0305205N Endurance Unmanned Aerial Vehicles			A4020 BAMS UAV						
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	C	TBD				12.000	05/04	186.600	11/04	Continuing	Continuing	
Ancillary Hardware Development												
System Integration	TBD	TBD				3.243	04/04	25.640	11/04	Continuing	Continuing	
Subtotal Product Development						15.243		212.240		Continuing	Continuing	
Remarks:												
Integrated Logistics Support	WX	Various				1.700	11/03	1.700	11/04	Continuing	Continuing	
Government Engineering Support	WX	NAWC-AD, Pax River, MD				5.862	11/03	8.250	11/04	Continuing	Continuing	
Subtotal Support						7.562		9.950		Continuing	Continuing	
Remarks:												

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CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)									DATE: February 2003			
APPROPRIATION/BUDGET ACTIVITY RDTE&E, N / BA-7			PROGRAM ELEMENT 0305205N Endurance Unmanned Aerial Vehicles			PROJECT NUMBER AND NAME A4020 BAMS UAV						
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												
Operational Test & Evaluation												
Live Fire Test & Evaluation												
Test Assets												
Tooling												
GFE												
Award Fees												
Subtotal T&E						0.000		0.000		0.000	0.000	
Remarks:												
Contractor Engineering Support	WX	NAWC-AD, Pax River, MD				0.535	11/03	0.537	11/04	Continuing	Continuing	
Program Management Support	WX	NAWC-AD, Pax River, MD				1.500	11/03	1.500	11/04	Continuing	Continuing	
Travel	WX	NAWC-AD, Pax River, MD				0.250	11/03	0.200	11/04	Continuing	Continuing	
Subtotal Management						2.285		2.237		Continuing	Continuing	
Remarks:												
Total Cost			0.000	0.000		25.090		224.427		Continuing	Continuing	
Remarks:												

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Exhibit R-3, Project Cost Analysis
(Exhibit R-3, page 15 of 17)

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

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Exhibit R-4a, Schedule Detail
(Exhibit R-4a, page 17 of 17)