

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: <b>May 2009</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY / BA-7</b>					R-1 ITEM NOMENCLATURE 0305206N, AIRBORNE RECONNAISSANCE SYSTEMS			
COST (\$ in Millions)	FY 2008	FY 2009	FY 2010					
Total PE Cost	<b>70.175</b>	<b>66.273</b>	<b>46.208</b>					
2694 ADVANCED DIGITAL SENSORS	<b>61.193</b>	<b>55.502</b>	<b>46.208</b>					
9999 CONGRESSIONAL ADD	<b>8.982</b>	<b>10.771</b>						
<p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>Provides funds for the development of sensor systems to improve present airborne reconnaissance capabilities. The developments are driven by evolving collection requirements and modern technology advances. The developments allow for the necessary changes required to meet an integrated, objective airborne reconnaissance architecture as defined in the Integrated Airborne Reconnaissance Strategy (IARS) and amplified in the Airborne Reconnaissance Information Technical Architecture. The Advanced Sensors Development Program implements successful proof-of-concept efforts accomplished in the Advanced Technology Program, other Service/Agency developments, and Congressionally-funded initiatives leading to producible sensor systems for airborne platforms. Upon successful sensor prototype demonstration, technology sensor developments are turned over to the Services for procurement and platform integration. This effort focuses on developments, which support sensor system interoperability and standardization of multi-Service and multi-platform applications. In addition, funds provide for the development/integration and operational assessment of components for the EP-3E and P-3 Special Projects Aircraft and follow-on candidate aircraft.</p> <p>There are two primary objectives for the Advanced Technology funding: (1) to evaluate the utility and maturity of technology for airborne reconnaissance applications and (2) to reduce the risk of employing emerging technologies in system upgrades, new system acquisitions, or Advanced Concept Technology Demonstrations (ACTDs), by integrating and exercising them in developmental and operational tests. These technologies help satisfy the requirements of the objective architecture set forth in the IARS. These technology investments are also identified in the Airborne Reconnaissance Technology Program Plan, published in November 1994.</p> <p>Exhibits reflect Congressional Adds currently being executed as follows:  FY08 Congressional Add of \$5.008M is to implement Environmental Cooling System (ECS) upgrades for EP-3E JCC Spiral 3 Aircraft.  FY08 Congressional Add of \$3.974M is for Fusion Exploitation Algorithm Targeting High-Altitude Reconnaissance (FEATHAR).  FY09 Congressional Add of \$4.787M is for EP-3E Requirements Capability Migration Technology Integration Lab.  FY09 Congressional Add of \$5.984M is for Fusion Exploitation Algorithm Targeting High-Altitude Reconnaissance (FEATHAR).</p>								

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**B. PROGRAM CHANGE SUMMARY:**

Funding:	FY08	FY09	FY10
Previous President's Budget:	59.337	55.719	26.405
Current President's Budget: *	70.175	66.273	46.208
Total Adjustments	10.838	10.554	19.803

Summary of Adjustments

Congressional Rescissions			
Congressional Adjustments	12.637	10.734	
SBIR/STTR/FTT Assessments			
Program Adjustments	-1.799		19.830
Rate/Misc Adjustments		-0.180	-0.027
Subtotal	10.838	10.554	19.803

Schedule:

Project Unit 2694: JCC Spiral 2 stopped in 4th Qtr FY08 due to issues during DT, slipping all additional testing; Spiral 3 DT moved from 2nd Qtr FY09 to 2nd Qtr FY10.

Technical:

Not Applicable.

\*Exhibits reflect Congressional Adds currently being executed as follows:

FY08 Congressional Add of \$5.008M is to implement Environmental Cooling System (ECS) upgrades for EP-3E JCC Spiral 3 Aircraft.

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FY09 Congressional Add of \$5.984M is for Fusion Exploitation Algorithm Targeting High-Altitude Reconnaissance (FEATHAR).

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EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>May 2009</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>		PROGRAM ELEMENT NUMBER AND NAME 0305206N, AIRBORNE RECONNAISSANCE SYSTEMS			PROJECT NUMBER AND NAME 2694, ADVANCED DIGITAL SENSORS			
COST (\$ in Millions)		FY 2008	FY 2009	FY 2010				
Project Cost		<b>61.193</b>	<b>55.502</b>	<b>46.208</b>				
RDT&E Articles Qty		<b>1</b>	<b>1</b>					

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

Provides funds for the development of sensor systems to improve present airborne reconnaissance capabilities fielded in both the EP-3E and P-3 Special Projects Aircraft (SPA) platforms. The developments are driven by evolving collection requirements and modern technology advances. The developments allow for the necessary changes required to meet an integrated, objective airborne reconnaissance architecture as defined in the Integrated Airborne Reconnaissance Strategy (IARS) and amplified in the Airborne Reconnaissance Information Technical Architecture (ARITA). The advanced sensor program includes technical analysis, systems engineering assessments, planning, and development for advanced airborne sensor systems. This effort focuses on developments which support sensor system interoperability and standardization of multi-Service and multi-platform applications. The EP-3E and Special Projects will undergo a series of incremental modifications via an evolutionary acquisition process which began in FY 2001. The advanced sensor developments described herein will provide the technology transition modules necessary for the overall migration of the airborne fleet to JASA, (i.e., sensors, ground systems, data links, and platforms), and provide the mechanism required for timely dissemination of intelligence information to operational forces.

FY05 began the integration of JMOD Common Configuration (JCC) into all EP-3 aircraft. These efforts carry forward the developments from prior years and continue the development efforts to ensure that EP-3 aircraft maintain their interoperability and relevance to emerging threats and changing technology. This funding provides for the development of the JCC capabilities and Spirals. The JCC baseline program builds on a common baseline with two spirals. Spiral 1 (ForceNet) includes high band and special collection subsystems (Story Finder, Multi-platform emitter geolocation (MPEG)) and data dissemination (Story Teller). Spiral 2 includes development of additional special collection signal capabilities and obsolescence upgrades.

In FY06 the JCC program was further restructured due to delays in the Aerial Common Sensor (ACS) recapitalization program. The restructure added an obsolescence evolution and a JCC Spiral 3 upgrade to maintain EP-3E mission system viability until recapitalization platform can be fielded (current est. 2021 IOC, 2023 FOC). This funding supported the required development of the restructured JCC program. The program procured an Engineering Development Model (EDM) in FY06 for Developmental Testing (DT) of the Spiral 2 system in FY07. Spiral 3 includes signal exploitation, low-band direction finding, Remote Tuning Receivers, Integrated Information Operations (I/O) and Environment Control System (ECS) upgrades. The program will procure two (2) Spiral 3 Engineering Development Models (EDM). The first EDM will be procured in FY08 for Developmental Testing (DT) of the system in FY09 and the Low Rate Initial Production (LRIP) Decision and procurement in FY10. The second Spiral 3 EDM production representative asset will be procured in FY09 to support Operational Testing (OT). Obsolescence, Quick Response Capabilities (QRCs) and technical refresh efforts will be accomplished in conjunction with the above JCC Spiral upgrades to sustain EP-3E capabilities and viability until recapitalization/replacement. Recapitalization Capabilities Migration (RCM) funds will ensure EP-3E relevance beyond FY20 and to develop follow-on capabilities to be migrated into the recap platform.

The Special Projects Modernization and Common Configuration Baseline (MCCB) program provides rapid insertion of new capabilities including improved communications, collection and analysis capabilities and weight reduction. Additionally, MCCB addresses technology refresh and obsolescence engineering. Most of the MCCB upgrades are based on stand-alone Government-Off-The-Shelf and Commercial-Off-The-Shelf (GOTS/COTS) systems.

FY08 OCO procures additional ISR capabilities in support of CENTCOM requirements.

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<b>B. Accomplishments/Planned Program</b>			
Spiral 2 development collection signal	FY 08	FY 09	FY 10
Accomplishments/Effort/Subtotal Cost	8.789	0.500	
RDT&E Articles Quantity			
Restructured Spiral 2 development includes, obsolescence and data fusion capabilities. Additional special collection signal capabilities, Data Fusion and MPEG frequency extension development.			
Spiral 3 development RFD, DF, I/O, ECS	FY 08	FY 09	FY 10
Accomplishments/Effort/Subtotal Cost	21.304	23.226	10.000
RDT&E Articles Quantity			
Spiral 3 development includes low-band Radio Frequency Distribution (RFD) and Direction Finding (DF) subsystem replacement, Remote Tuning Receivers, Intergrated Information Operations (I/O) and Environmental Control System (ECS) upgrades.			
Technical Refresh dev for obsolete sys	FY 08	FY 09	FY 10
Accomplishments/Effort/Subtotal Cost	3.131	2.269	2.305
RDT&E Articles Quantity			
The Technical Refresh development of replacement technology for obsolete and unsupported collection and support mission systems.			

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

Develop Spiral upgrades to collection subsys	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	18.391	7.758	12.460	
RDT&E Articles Quantity				

Imagery engineering investigations completed. Developed and demonstrated Special Projects Projects (SPA) Direction Finding (DF) upgrades for SP Systems Requirements Review (SRR). SPA Communications/Infrastructure updated. SPA Modernization and Common Configuration Baseline (MCCB) program. Develop Spiral upgrades to the special collections subsystem, data communications and infrastructure. Address technology refresh and obsolescence issues. Mission system weight reduction development.

QRC for emergent threat technology	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	2.500	2.500	3.000	
RDT&E Articles Quantity				

Quick Response Capabilities (QRC) are for development of capabilities to meet requirements for emergent threat technology.

EP-3E Recap capabilities migration	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	7.078	19.249	18.443	
RDT&E Articles Quantity				

Engineering development of EP-3E mission capabilities to be deployed and procured on the legacy platform for the future migration to follow-on recap platform to stay abreast of emergent threat technologies.

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>	PROGRAM ELEMENT NUMBER AND NAME 0305206N, AIRBORNE RECONNAISSANCE SYSTEMS	PROJECT NUMBER AND NAME 2694, ADVANCED DIGITAL SENSORS													
<p><b>C. OTHER PROGRAM FUNDING SUMMARY:</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Line Item No. &amp; Name</th> <th style="text-align: right; border-bottom: 1px solid black;">FY 2008</th> <th style="text-align: right; border-bottom: 1px solid black;">FY 2009</th> <th style="text-align: right; border-bottom: 1px solid black;">FY 2010</th> </tr> </thead> <tbody> <tr> <td>0537, EP-3E Series</td> <td style="text-align: right;">85.645</td> <td style="text-align: right;">64.479</td> <td style="text-align: right;">92.530</td> </tr> <tr> <td>0567, Special Projects Aircraft</td> <td style="text-align: right;">25.157</td> <td style="text-align: right;">102.705</td> <td style="text-align: right;">14.869</td> </tr> </tbody> </table>  <p><b>D. ACQUISITION STRATEGY:</b></p> <p>Leverages/complements Air Force, Naval Research Laboratory, Office of Naval Research RDTE efforts for technology insertions into EP-3E/SPA production programs.</p>				Line Item No. & Name	FY 2008	FY 2009	FY 2010	0537, EP-3E Series	85.645	64.479	92.530	0567, Special Projects Aircraft	25.157	102.705	14.869
Line Item No. & Name	FY 2008	FY 2009	FY 2010												
0537, EP-3E Series	85.645	64.479	92.530												
0567, Special Projects Aircraft	25.157	102.705	14.869												

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Exhibit R-3 Cost Analysis (page 1)								DATE: <b>May 2009</b>			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME					
<b>RDT&amp;E, N / BA-7</b>			0305206N, AIRBORNE RECONNAISSANCE SYSTEMS			2694, ADVANCED DIGITAL SENSORS					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date				
Ancillary Hdw Dev - OBS	SS-CPFF	L-3 COM INT SYS WACO,TX	2.110	1.670	Apr 2009	1.350	Jan 2010				
Ancillary Hdw Dev - OBS	SS-CPFF	VARIOUS	2.050								
Ancillary Hdw Dev - QRC	SS-CPFF	TBD	2.500	2.350	May 2009	2.825	Dec 2009				
Ancillary Hdw Dev - RCM	C-CPFF	L-3 COM INT SYS WACO,TX	1.200	6.569	Jan 2009	5.560	Jan 2010				
Ancillary Hdw Dev - RCM	C-CPFF	RAYTHEON TECH SVC, IN	.950	7.635	Jan 2009	7.307	Jan 2010				
Ancillary Hdw Dev - RCM	C-CPFF	VARIOUS	3.580	2.545	Jan 2009	1.681	Jan 2010				
Ancillary Hdw Dev - SPA	SS-CPFF	ARGON ST, INC, VA	14.968	1.100	Dec 2008	2.883	Dec 2009				
Ancillary Hdw Dev - SPA	SS-CPFF	L-3 COM INT SYS WACO,TX	12.782	2.375	Apr 2009						
Ancillary Hdw Dev - SPA	SS-CPFF	TBD				2.800	Jan 2010				
Ancillary Hdw Dev - SPA	SS-CPFF	TBD				2.500	Jan 2010				
Ancillary Hdw Dev - SPA	SS-CPFF	TBD									
Ancillary Hdw Dev - SPA	SS-CPFF	VARIOUS	2.542	.247	Dec 2008	.350	Dec 2009				
Ancillary Hdw Dev - Spiral 2	SS-CPFF	L-3 COM INT SYS WACO,TX	30.573								
Ancillary Hdw Dev - Spiral 3	SS-CPFF	L-3 COM INT SYS WACO,TX	31.397	15.050	Feb 2009	4.140	Dec 2009				
Ancillary Hdw Dev - Spiral 3	SS-CPFF	RAYTHEON TECH SVC, IN	5.116								
Primary Hdw Development	C-CPFF	TBD									
Subtotal Product Development			109.768	39.541		31.396					
Remarks:											

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<b>RDT&amp;E, N / BA-7</b>			0305206N, AIRBORNE RECONNAISSANCE SYSTEMS			2694, ADVANCED DIGITAL SENSORS							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date						
Develop Support - OBS	VARIOUS	VARIOUS	2.506										
Develop Support - RCM	VARIOUS	VARIOUS	1.204	1.000	Dec 2008	1.445	Dec 2009						
Develop Support - SPA	VARIOUS	VARIOUS	8.593	2.998	Dec 2008	2.467	Dec 2009						
Develop Support - Spiral 1	VARIOUS	VARIOUS	2.965										
Develop Support - Spiral 2	VARIOUS	VARIOUS	3.295										
Develop Support - Spiral 3	VARIOUS	VARIOUS		1.389	Dec 2008								
Develop Support - Spiral 3	VARIOUS	AT&T GOVT SOL INC, VA	2.271	.995	Dec 2008	1.500	Dec 2009						
ETS (NON-FFRDC) SP2	VARIOUS	AT&T GOVT SOL INC, VA	.600										
ETS (NON-FFRDC) SP3	VARIOUS	AT&T GOVT SOL INC, VA	.642	.562	Dec 2008	.500	Dec 2009						
ETS (NON-FFRDC) SPA	VARIOUS	AT&T GOVT SOL INC, VA	1.683	.500	Dec 2008	.800	Dec 2009						
ETS (NON-FFRDC) RCM	VARIOUS	AT&T GOVT SOL INC, VA				.600	Dec 2009						
Subtotal Support			23.758	7.444		7.312							
Remarks: Dollars may not add due to rounding.													

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Exhibit R-3 Cost Analysis (page 2)								DATE: <b>May 2009</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>			PROGRAM ELEMENT 0305206N, AIRBORNE RECONNAISSANCE SYSTEMS			PROJECT NUMBER AND NAME 2694, ADVANCED DIGITAL SENSORS					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date				
DT/Eval - SPA	VARIOUS	NAWCAD, PAX RIVER, MD	2.041	.480	Dec 2008	.600	Dec 2009				
DT/OT & Eval - RCM	VARIOUS	NAWCAD, PAX RIVER, MD		1.000	Dec 2008	.750	Dec 2009				
DT/OT & Eval - Spiral 1	VARIOUS	NAWCAD, PAX RIVER, MD	.056								
DT/OT & Eval - Spiral 2	VARIOUS	NAWCAD, PAX RIVER, MD	3.327	.500	Dec 2008						
DT/OT & Eval - Spiral 3	VARIOUS	NAWCAD, PAX RIVER, MD	.082	3.735	Dec 2008	3.750	Dec 2009				
Test & Eval - QRC	VARIOUS	NAWCAD, PAX RIVER, MD		.150	Dec 2008	.175	Dec 2009				
Subtotal T&E			5.506	5.865		5.275					
Remarks:											
Systems Eng Spt - OBS	WX	NAWCAD, PAX RIVER, MD	.364	.544	Dec 2008	.900	Dec 2009				
Systems Eng Spt - RCM	WX	NAWCAD, PAX RIVER, MD	.144	.500	Dec 2008	1.000	Dec 2009				
Systems Eng Spt - Spiral 2	WX	NAWCAD, PAX RIVER, MD	.651								
Systems Eng Spt - Spiral 3	WX	NAWCAD, PAX RIVER, MD	.414	1.405	Dec 2008	.055	Dec 2009				
Travel - SPA	TO	NAWCAD, PAX RIVER, MD	.354	.058	Dec 2008	.060	Dec 2009				
Travel - Spiral 2	TO	NAWCAD, PAX RIVER, MD	.352								
Travel - Spiral 3	TO	NAWCAD, PAX RIVER, MD	.353	.090	Dec 2008	.055	Dec 2009				
Travel - RCM	TO	NAWCAD, PAX RIVER, MD				.100	Dec 2009				
Travel-NSMA	TO	NAWCAD, PAX RIVER, MD		.055	Dec 2008	.055	Dec 2009				
Travel-NSMA	TO	NAWCAD, PAX RIVER, MD	.164								
Subtotal Management			2.795	2.652		2.225					
Remarks: Dollars may not add due to rounding.											
Total Cost			141.827	55.502		46.208					
Remarks:											

EXHIBIT R4, Schedule Profile													DATE: <b>May 2009</b>							
APPROPRIATION/BUDGET ACTIVITY					PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME										
<b>RDT&amp;E,N / BA-7</b>					0305206N, AIRBORNE RECONNAISSANCE SYSTEMS					2694, ADVANCED SIGNAL RECOGNITION										
Fiscal Year	FY 2008				FY 2009				FY 2010											
	1	2	3	4	1	2	3	4	1	2	3	4								
<b>EP-3 Program Milestones</b> Milestones																				
<b>Engineering Milestones</b>																				
<b>Test &amp; Evaluation Milestones</b>																				
Development Test																				
Operational Test																				
<b>Contract Milestones</b>																				
Deliveries																				

Spiral 2 - DT1  


Spiral 3 - DT  
  
 RCM - DT  


Spiral 3 EDM-1  


Spiral 3 EDM-2  
  
 RCM EDM  




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COST (\$ in Millions)		FY 2008	FY 2009	FY 2010				
Project Cost		<b>8.982</b>	<b>10.771</b>					
RDT&E Articles Qty								

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Congressional Adds.

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**B. Accomplishments/Planned Program**

9437A	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	3.974	5.984		
RDT&E Articles Quantity				

Continue the development of algorithmic, cueing and software focused efforts (Fusion Exploitation Algorithm Targeting High-Altitude Reconnaissance [FEATHAR]) in support of the Deployable Unmanned Systems for Targeting, Exploitation, and Reconnaissance (DUSTER) system. This system could simultaneously extend the area of intelligence gathering, keep the operators out of harms way, and provide an airborne real-time exploitation and dissemination node to identify, geo-locate, and track enemy targets.

9C79A	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	5.008			
RDT&E Articles Quantity				

Provide ancillary hardware development in support of Spiral 3. Spiral 3 development includes low-band Radio Frequency Distribution (RFD) and Direction Finding (DF) subsystem replacement, Remote Tuning Receivers, Integrated Information Operations (I/O) and Environmental Control System (ECS) upgrades.

9E25A	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost		4.787		
RDT&E Articles Quantity				

Initiate the development of an EP-3E Requirements Capability Migration Technology Integration Lab.