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Exhibit R-2, RDT&E BUDGET ITEM JUSTIFICATION								DATE: February 1999	
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE			
RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7						Airborne Reconnaissance Advanced Development (ARAD) PE 0305206D8Z			

COST (IN MILLIONS)	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
Total PE Cost	186.090	*	*	*	*	*	*	*	*	*
Total Project Cost/No. Subtotal Cost										
Airborne Reconnaissance Common Data Link (CDL)/P810	42.889	*	*	*	*	*	*	*	*	*
Quantity of RDT&E Articles										

* Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the CDL funds for FY00-05 were transferred to the Air Force (PE 0305206F).

A. Mission Description and Budget Item Justification

Brief Description of Element: The objective of the CDL effort within the DARP is to define an interoperable command, control and communications capability for intelligence and reconnaissance assets to include both manned and unmanned platforms. CDL will achieve interoperable communications paths by employing an architecture based on developed hardware, software, and waveforms to promote commonality among the Services. The CDL program will maintain design configuration commonality resulting in lower life-cycle costs. The CDL design will permit existing and future reconnaissance assets to operate worldwide, providing sensor data directly to ground sites or via satellite or air-to-air relay when the asset and ground site are not within line-of-sight. This effort will integrate commercial satellite communications into the available satellite relay options to ensure sufficient wideband data relay capability. The system will have sufficient bandwidth to accommodate numerous sensors collecting SIGINT, IMINT and Multi-spectral data. Modular design allows for future technology insertion. The commonality of modular components reduces non-recurring engineering and life cycle costs to the DoD user. Interoperability provides for the exchange of data across service or agency boundaries. This program is categorized as Budget Activity 7 because it provides for development of technologies and capabilities in support of Operational System Development.

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Program Accomplishments and Plans: The CDL program supports development of advanced communications capabilities which offer common, interoperable, and modular attributes to future warfighters under all circumstances, situations, or force structures. The CDL funds are expended for the initial development and demonstration of new data link capabilities and functions. In addition, these funds are leveraged with other Service/Agency funds to provide data link capabilities that are applicable to multiple programs. Specific initiatives include the continuation of design, development, test and demonstration activities associated with common/interoperable communications and control capabilities for airborne reconnaissance platforms and sensors.

Program Plans and Accomplishments: (\$ in millions)

FY1998 Accomplishments: (\$42.889)

- Continued configuration control of CDL architecture, specifications and modules (\$2.918)
- Continued development of CDL interface on additional platforms (\$2.920)
- Continued to access development of commercial network interface standards and incorporated commercial technologies where practical to the CDL interface (\$1.062)
- Continued engineering and integration of commercial satellite communications network to support airborne reconnaissance platform relay requirements (\$12.959)
- Continued covert waveform development/miniaturization/air-to-air link under the ABIT program and integration engineering of ABIT in ISR platforms (\$12.200)
- Continued SATCOM interoperability enhancements (\$0.450)
- Continued development of Tactical CDL demonstration hardware and flight demonstration, and continued to develop design for operational suitability on ISR platforms (\$10.380)

*** Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the CDL funds for FY00-05 were transferred to the Air Force (PE 0305206F).**

Acquisition Strategy: The CDL involves a multitude of technology projects which will provide for a common, interoperable wideband data link standard that has been mandated by ASD/C3I policy. Program funds are leveraged with the Service program funds to satisfy project objectives.

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Funds are provided to various government laboratories and program offices to fund on-going technology efforts. The individual Services use Engineering Change Proposals (ECPs) and modify existing contracts that have been awarded both competitively and on a sole source basis to implement various technology efforts.

B. Program Change Summary

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>
Previous President's Budget	43.4	*	*	*	*
Net Change	(.5)				
President's Budget Request	42.9	*	*	*	*

* Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the CDL funds for FY00-05 were transferred to the Air Force (PE 0305206F).

Change Summary Explanation:

Funding: The change from previous funding is a result of internal realignments within the DARP.

Schedule: N/A

Technical: N/A

C. Other Program Funding Summary Cost

N/A

* Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the EUAV Program funds for FY00-05 were transferred to the Air Force (PE 0305205F).

D. Schedule Profile

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Fiscal Year actual and planned events by quarter

	<u>FY 1998</u>				<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Other Program Events																
Start Tactical CDL Phase 2 Detail Design/ CDL Interoperability Testing		X														
U-2 ABIT Prototype Delivery			X													
SATCOM Interoperability Study Complete				X												
Start ARL/CDL SATCOM Design		X														
Complete ARL/CDL SATCOM Design			X													
ARL SATCOM Testing				X												

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RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7		Airborne Reconnaissance Advanced Development PE 0305206D8Z

COST (IN MILLIONS)	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
Total PE Cost	186.090	*	*	*	*	*	*	*	*	*
Project Name/No. and Subtotal Cost Advanced Sensors/P808	104.066	*	*	*	*	*	*	*	*	*
Project Name/No. and Subtotal Cost Airborne Reconnaissance Advanced Technology Development Program, P809	39.135	*	*	*	*	*	*	*	*	*
Project Name/No. and Subtotal Cost Common Data Link (CDL)/P810	42.889	*	*	*	*	*	*	*	*	*
Quantity of RDT&E Articles										

* Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the Adv Sensor funds for FY00-05 were transferred to the Air Force (PE 0305206F), NSA (PE 0305206G), Navy (PE 0305206N).

A. Mission Description and Budget Item Justification

Brief Description of Element: This program funds and coordinates the development of advanced defense airborne reconnaissance technologies to ensure systems satisfy strategies and architectures to assure U.S. ability to support warfighter intelligence needs in the face of rapidly developing threat technology, proliferation of advanced weaponry, and uncertain political alignments. This program funds the development of the technologies that respond to evolving threats by emphasizing multi-service utility, interoperability among existing and planned complementary systems (i.e., sensors, ground systems, data links, and manned and unmanned platforms), and timely dissemination of intelligence information to operational forces. It also funds the architecture and master planning activities that will provide the overall guidance for airborne reconnaissance SIGINT and IMINT, and manned/unmanned airborne reconnaissance systems. This program is categorized as Budget Activity 7 because it provides for development of technologies and capabilities in support of operational system development.

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RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7						Airborne Reconnaissance Advanced Development PE 0305206D8Z			

COST (IN MILLIONS)	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
Total PE Cost	186.090	*	*	*	*	*	*	*	*	*
Total Project Cost/No. Subtotal Cost Advanced Sensors/P808	104.066	*	*	*	*	*	*	*	*	*
Quantity of RDT&E Articles										

* Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the Adv Sensor funds for FY00-05 were transferred to the Air Force (PE 0305206F), NSA (PE 0305206G), Navy (PE 0305206N).

A. Mission Description and Budget Item Justification

Brief Description of Element: 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 (ARITA). Particular emphasis is placed on multi-platform interoperability. 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. The advanced sensor program includes technical analyses, 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 advanced sensor developments will provide the technology transition modules for operational use necessary for the overall migration of the airborne fleet (manned and unmanned) to a Joint Airborne SIGINT Architecture (JASA) (i.e., sensors, ground systems, data links, and platforms), and provide the mechanism required for timely dissemination of intelligence information to operational forces. The development and modification of the lead integration aircraft (EP-3E) for the initial JASA modules will provide a mechanism to begin development and operational assessment of the Joint SIGINT Avionics Family (JSAF) components. Coordinated and complementary airborne sensor development across the military Services and the Defense and Intelligence

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Agencies are being established for inclusion into the JASA. This sub-project also includes funding for U-2 sensor upgrades and multispectral imaging (MSI) developments. This program is categorized as Budget Activity 7 because it provides for the development of technologies and capabilities in support of Operational Systems Development.

Programs Plans and Accomplishments: (\$ in millions)

FY 1998 Accomplishments: (\$104.066)

JASA (\$93.659)

- Developed JSAF components (\$92.182)
 - Completed High band Prototype (HBP) Flight Testing (\$10.400)
 - Continued Low-Band Sub-Systems (LBSS) development (\$33.000)
 - Awarded and started High-Band Sub-Systems (HBSS) development (\$12.300)
 - Continued platform development for JSAF integration and testing (\$36.092)
 - ARL (\$5.700)
 - RIVET JOINT (\$10.400)
 - EP-3 (\$9.700)
 - AF Special (\$10.292)
- Continued development and refinement of JASA Air and Ground standards (\$1.867)

Advanced Developments (\$10.407)

- Continued Signal Recognition (Story Series development) (\$ 3.072)
 - Completed Story Book fusion software development (\$.872)
 - Completed Story Book Programmable Interface Processor (PID) (\$0.700)
 - Initiated Story Finder AOITF modifications (\$1.500)
- Continued COMPASS BRIGHT (advanced technologies supporting JSAF development) (\$2.451)
 - Began NexGen wide-band digital receiver development through Air Force Research Labs – Sensors Division (\$1.551)
 - Began advanced SIGINT development at Air Force Research Labs – Information Systems Division (\$0.900)
- Initiated COMBAT SENT wideband system development (\$1.866)

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- Initiated component design and simulation
- Other (\$3.018)

***Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the Adv Sensor funds for FY00-05 were transferred to the Air Force (PE 0305206F), NSA (PE 0305206G), Navy (PE 0305206N).**

Acquisition Strategy: The Advanced Sensors line funds virtually all airborne advanced sensor developments necessary to collect against an increasingly sophisticated and rapidly evolving collection threat. It consists of one large SIGINT program (JASA) and several smaller programs - SIGINT, IMINT, & MASINT. The DoD placed increased emphasis in making the numerous SIGINT systems flying on Service platforms more interoperable and common. A Joint SIGINT Avionics Family is being developed to achieve this goal. In the interim, collection capability must be sustained in existing manned reconnaissance aircraft until more enhanced, capable JASA systems become available. This line also funds IMINT and MASINT developments and upgrades such as the MSI H/SIP and SYERS upgrades and the imagery sensor development to be flown on the Predator UAV.

B. Program Change Summary

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>
Previous President's Budget	105.4	*	*	*	*
Net Change	<u>(1.3)</u>	*			
President's Budget Request	104.1	*	*	*	*

* Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the Adv Sensor funds for FY00-05 were transferred to the Air Force (PE 0305206F), NSA (PE 0305206G), Navy (PE 0305206N).

Change Summary Explanation:

Funding: The change in funding is a result of internal realignments within the DARP.
 Schedule: N/A

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Technical: N/A

C. Other Program Funding Summary

N/A

* Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the Adv Sensor funds for FY00-05 were transferred to the Air Force (PE 0305206F), NSA (PE 0305206G), Navy (PE 0305206N).

D. Schedule Profile

Fiscal Year actual and planned events by quarter

	<u>FY 1998</u>				<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Engineering Milestones	_____															
Standards Development	_____															
High Band Prototype (HBP)	— X															
System Development	_____															
EP-3 HBP Integration	X															
HBP Flight Test	X — X															
High-Band Sub-System (HBSS) Develop.	_____ X															
Low-Band Sub-System (LBSS) Develop.	X _____ X															

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D. Schedule Profile

Fiscal Year actual and planned events by quarter

	<u>FY 1998</u>				<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
SB Fusion Software				X												
SB Programmable Interface Processor (PIP)			X													
NexGen Digital Receiver Development	X															
COMBAT SENT Wideband System Dev																
Contract Milestones	X			X												
JSH Updates Published	X		X													
HBP Ground/Flight Tests				X												
HBP Complete	X															
LBSS PDR			X													
LBSS CDR	X															
HBSS Contract Award		X														
HBSS SRR				X												
HBSS PDR	X															
Story Finder Architecture Requirements Begun				X												
Story Finder Flight Test				X												
Story Finder AOITF CDR			X													
SYERS P3I/U-2 MSI System First Delivery				X												
NexGen Digital Receiver (CDR-Unit 1)																

* Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the Adv Sensor funds for FY00-05 were transferred to the Air Force (PE 0305206F), NSA (PE 0305206G), Navy (PE 0305206N).

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COST (IN MILLIONS)	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
Total PE Cost	186.090	*	*	*	*	*	*	*	*	*
Total Project Cost/No. Subtotal Cost Airborne Reconnaissance Advanced Technology Development Program,P809	39.135	*	*	*	*	*	*	*	*	*
Quantity of RDT&E Articles										

* Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the Adv Tech funds for FY00-05 were transferred to the Air Force (PE 0305206F), NSA (PE 0305206G), Navy (PE 0305206N), Army (PE 0305206A).

A. Mission Description and Budget Item Justification

Brief Description of Element: 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. Once technologies are matured under this project, they often feed into Advanced Sensor projects for further development prior to being transitioned to the Services for procurement. These technologies help satisfy the requirements of the objective architecture set forth in the Integrated Airborne Reconnaissance Strategy (IARS). These technology investments are also identified in the Airborne Reconnaissance Technology Program Plan (ARTPP), published in November 1994. They were carefully selected from a broad range of technologies to provide utility to the warfighter at acceptable levels of cost and risk. This project continues technology transition programs in the critical areas identified in the ARTPP. Included are: exigent target detection; advanced exploitation, geolocation; communications, advanced digital reconnaissance, and advanced signals intelligence (SIGINT). This is not a prioritized listing. A new category, technology initiatives, includes technology transition programs including those designated by Congress. This program is categorized as Budget Activity 7 because it provides for the development of technologies and capabilities in support of operational system development.

Program Accomplishments and Plans: (\$ in millions)

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FY 1998 Accomplishments: (\$39.135)

- Exigent Target Detection (Adaptive Spectral Reconnaissance Program (ASRP), Multi-Sensor Exploitation Testbed (MSET), Reconnaissance Infrared Surveillance & Targeting Acquisition System (RISTA II)) (\$5.322)
 - Initiated development of Predator-version hyperspectral imager and conduct demonstration on a manned surrogate in cooperation with DARPA as part of the ASRP (\$3.700)
 - Demonstrated near-real-time target detection and cueing, second phase exploitation, and integration tools in the laboratory (MSET) (\$0.927)
 - Performed demonstration of RISTA II long wave infrared sensor on Altus unmanned aerial vehicle (\$0.695)
- Advanced Exploitation (Moving Target Exploitation (MTE), Advanced Common Processor (ACP), Intelligence Bandwidth Compression (IBC)) (\$4.727)
 - Demonstrated Moving Target Exploitation functionality in virtual testbed (\$2.780)
 - Completed and demonstrated real-time Intelligent Bandwidth Compression applicable to the U-2 and Global hawk (\$0.927)
 - Continued development of a common airborne/satellite processing capability (\$1.020)
- Geolocation (Precision Geolocation – SIGINT, Interferometric Synthetic Aperture Radar (IFSAR), Geolocation, Radar Tags) (\$9.122)
 - Modified aircraft for cooperative SIGINT geolocation capabilities (\$4.006)
 - Initiated development of interferometric SAR to provide DTED V single pass data from high altitude platforms (\$3.711)
 - Initiated development of coregistration of imagery on SAR generated maps (\$0.278)
 - Completed development of radar tags in cooperation with DARPA (\$1.127)
- Communications (Data terminal, laser Air-to-Air) (\$2.921)
 - Initiated concept phase for development of high-data-rate communications and begin design (Classified Program) (\$0.927)
 - Completed terminal fabrication and instrument test aircraft (\$1.994)
- Advanced Digital reconnaissance (Framing reconnaissance Cameras) (\$9.278)
 - Complete development of 4-Megapixel IR framing camera and test (\$3.450)
 - Begin development of high-performance, IR cameras (25 megapixels/second) (\$5.828)
- Technology Initiatives (\$7.764)

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*** Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the Adv Tech funds for FY00-05 were transferred to the Air Force (PE 0305206F), NSA (PE 0305206G), Navy (PE 0305206N), Army (PE 0305206A).**

Acquisition Strategy: A variety of acquisition strategies are being incorporated depending on the specific advanced technology in question and the organization developing the technology.

B. Program Change Summary

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>
Previous President's Budget	39.6	*	*	*	*
Net Change	(.5)				
President's Budget Request	39.1	*	*	*	*

* Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the Adv Tech funds for FY00-05 were transferred to the Air Force (PE 0305206F), NSA (PE 0305206G), Navy (PE 0305206N), Army (PE 0305206A).

Change Summary Explanation:

Funding: The change in funding is a result of internal realignments within the DARP.

Schedule: N/A

Technical: N/A

C. Other Program Funding Summary Cost

N/A

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D. Schedule Profile

Fiscal Year actual and planned events by quarter

	<u>FY 1998</u>				<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<u>Exigent Target Detection</u>																
Demonstrate real-time TD/C in lab (MSET)				X												
<u>Advanced Exploitation</u>																
Demonstrate Moving Target Exploitation Functionality in Virtual Testbed				X												
Complete Demonstrate Single-Scale Intelligent Bandwidth Compression (IBC) in Real-Time				X												
<u>Communications</u>																
Begin Data Terminal Concept Phase		X														
Begin Design/Modification Phase				X												
Crosslink Test Aircraft and Terminal Delivery		X														
<u>Advanced Digital Reconnaissance</u>																
Initiate 100 Megapixel FPA Tech Demo		X														
Test 4 Megapixel IR Framing Camera		X														
<u>Advanced SIGINT</u>																
NexGen Digital Receiver (CDR-Unit 1)				X												

*Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the Adv Tech funds for FY00-05 were transferred to the Air Force (PE 0305206F), NSA (PE 0305206G), Navy (PE 0305206N), Army (PE 0305206A).

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Exhibit R-3 Cost Analysis (page 1)									DATE February 1999			
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT					PROJECT NAME AND NUMBER			
RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7				PE 0305206D8Z					Airborne Reconnaissance Advanced Development (ARAD)/P809			
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY Cost	1999 Cost*	1999 Award Date	2000 Cost *	2000 Award Date	2001 Cost *	2001 Award Date	Cost to Complete *	Total Cost *	Target Value of Contract
Product Development			39.135									
Subtotal Product Development			39.135									
Remarks												
Advanced Technology consists of various projects which, while being supportive of the development of the airborne reconnaissance architecture, are not necessarily managed by the same agencies or Services.												
Development Support												
Software Development												
Training Development												
Integrated Logistics Support												
Configuration Management												
Technical Data												
GFE												
Subtotal Support												
Remarks												

Exhibit R-3, Project Cost Analysis
(Exhibit R-3, page 1 of 2)

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Exhibit R-3 Cost Analysis (page 2)										DATE February 1999		
APPROPRIATION/BUDGET ACTIVITY RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7				PROGRAM ELEMENT PE 0305206D8Z						PROJECT NAME AND NUMBER Airborne Reconnaissance Advanced Development (ARAD)/P809		
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY Cost	1999 Cost*	1999 Award Date	2000 Cost *	2000 Award Date	2001 Cost *	2001 Award Date	Cost to Complete *	Total Cost *	Target Value of Contract
Development Test & Evaluation												
Operational Test & Evaluation												
Tooling												
GFE												
Subtotal T&E												
Remarks												
Contractor Engineering Support												
Government Engineering Support												
Program Management Support												
Program Management Personnel												
Travel												
Labor (Research Personnel)												
Overhead												
Subtotal Management												
Remarks												
Total Cost			39.135									
Remarks												
* Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the Advanced Technology funds for FY00-05 were transferred to the Air Force (PE 0305206F), Army (PE 0305206A), Navy (PE 0305206N), and the NSA (PE 0305206G).												

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Exhibit R-3 Cost Analysis (page 1)									DATE February 1999			
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT					PROJECT NAME AND NUMBER			
RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7				PE 0305206D8Z					Airborne Reconnaissance Advanced Development (ARAD)/P808			
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY Cost	1999 Cost*	1999 Award Date	2000 Cost *	2000 Award Date	2001 Cost *	2001 Award Date	Cost to Complete *	Total Cost *	Target Value of Contract
Product Development			104.066									
Product Development												
Product Development												
Subtotal Product Development			104.066									
Remarks												
Advanced Sensors consists of various projects which, while being supportive of the airborne reconnaissance architecture, are not managed by the same agencies or Services.												
Development Support												
Software Development												
Training Development												
Integrated Logistics Support												
Configuration Management												
Technical Data												
GFE												
Subtotal Support												
Remarks												

Exhibit R-3, Project Cost Analysis
(Exhibit R-3, page 1 of 2)

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Exhibit R-3 Cost Analysis (page 2)										DATE February 1999		
APPROPRIATION/BUDGET ACTIVITY RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7				PROGRAM ELEMENT PE 0305206D8Z						PROJECT NAME AND NUMBER Airborne Reconnaissance Advanced Development (ARAD)/P808		
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY Cost	1999 Cost*	1999 Award Date	2000 Cost *	2000 Award Date	2001 Cost *	2001 Award Date	Cost to Complete *	Total Cost *	Target Value of Contract
Development Test & Evaluation												
Operational Test & Evaluation												
Tooling												
GFE												
Subtotal T&E												
Remarks												
Contractor Engineering Support												
Government Engineering Support												
Program Management Support												
Program Management Personnel												
Travel												
Labor (Research Personnel)												
Overhead												
Subtotal Management												
Remarks												
Total Cost			104.066									
Remarks												
* Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the Advanced Sensors funds for FY00-05 were transferred to the Air Force (PE 0305206F), Navy (PE 0305206N), and the NSA (PE 0305206G).												

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Exhibit R-3 Cost Analysis (page 1)										DATE February 1999		
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT						PROJECT NAME AND NUMBER		
RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7				PE 0305206D8Z						Airborne Reconnaissance Advanced Development (ARAD)/P810		
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY Cost	1999 Cost*	1999 Award Date	2000 Cost *	2000 Award Date	2001 Cost *	2001 Award Date	Cost to Complete *	Total Cost *	Target Value of Contract
Product Development			42.889									
Subtotal Product Development			42.889									
Remarks												
Remarks												

Exhibit R-3, Project Cost Analysis
(Exhibit R-3, page 1 of 2)

