

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)	DATE February 1999
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BUDGET ACTIVITY 7 - Operational System Development	PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems
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COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	0	126,402	124,608	136,591	97,369	116,311	122,864	121,001	Continuing	Continuing
4817 Joint SIGINT Avionics Family (JSAF)	0	80,683	81,640	71,478	40,862	45,089	45,777	46,669	Continuing	Continuing
4818 Advanced Technology	0	9,881	9,430	19,916	17,676	24,695	29,584	25,843	Continuing	Continuing
4819 Common Data Link (CDL)	0	35,838	33,538	45,197	38,831	46,527	47,503	48,489	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

Note: FY98 funds are in PE 0305206D, Airborne Reconnaissance Advanced Development. Funding for FY99-05 transferred to PE 0305206F from PE 305206D as part of the DARO divestiture.

(U) A. Mission Description

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.

(U) B. Budget Activity Justification

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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(U) C. Program Change Summary (\$ in Thousands)

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY 1999 PB)		0	0	0	Continuing
(U) Appropriated Value		126,768			
(U) Adjustments to Appropriated Value					
a. Cong Reductions		-366			
b. SBIR					
c. Omnibus or Other Above Threshold Reprogram					
d. Below Threshold Reprogramming					
(U) Adjustments to Budget Years Since FY 1999 PB			+124,608	+136,591	
(U) Current Budget Submit/FY 2000 PB		126,402	124,608	136,591	Continuing

Note: FY98 funds are in PE 0305206D, Airborne Reconnaissance Advanced Development. Funding for FY99-05 transferred to PE 0305206F from PE 305206D as part of the DARO divestiture.

(U) Significant Program Changes:

Funding for Airborne Reconnaissance Systems for FY99-05 was transferred to the Air Force (PE 0305206F) from the Defense Airborne Reconnaissance Office (PE 305206D).

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE February 1999		
BUDGET ACTIVITY 7 - Operational System Development				PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems				PROJECT 4817		
<i>COST (\$ In Thousands)</i>	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
4817 Joint SIGINT Avionics Family (JSAF)	0	80,683	81,640	71,478	40,862	45,089	45,777	46,669	Continuing	Continuing
<p><u>Note:</u> FY98 funds are in PE 0305206D, Airborne Reconnaissance Advanced Development. Funding for FY99-05 transferred to PE 0305206F from PE 305206D as part of the DARO divestiture.</p> <p>(U) A. <u>Mission Description</u></p> <p>Provides funds for the development of sensor systems to modernize the SIGINT capability of the DoD airborne reconnaissance fleet, through a series of incremental upgrades, to meet the 2010 threat. Upgrades will embrace an open systems approach, with recognized standards, commonality, modularity, scalability, and reconfigurability. The incremental approach will ensure access to the latest technology as future budget year dollars become available. The open architecture will provide competitive opportunities to contractors who find innovative ways to use new technologies. It will also permit maximum use of commercial-off-the-shelf (COTS) and government-off-the-shelf (GOTS) capabilities developed for other applications. The goal is full compliance with all CRD requirements and all Joint Airborne SIGINT Architecture (JASA) by 2010. The development and modification of the lead integration aircraft (EP-3E) for the initial JSAF modules will provide a mechanism to begin development and operational assessment of the JSAF components. Producibile JSAF components will be provided for the airborne fleet (manned and unmanned) for integration on the Air Force's RC-135V/W (Rivet Joint), an unspecified Army platform, the Air Force's AF Special, and the Navy's EP-3E.</p> <p>(U) <u>FY 1998 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> - (U) \$0 FY98 funds are in PE 0305206D, Airborne Reconnaissance Advanced Development. - (U) \$0 Total <p>(U) <u>FY 1999 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> - (U) \$42,002 Continue Low Band SubSystem (LBSS) Development and Integration - (U) \$16,546 Continue High Band SubSystem (HBSS) Development and Integration - (U) \$ 5,178 Continue Rivet Joint Platform Development and Integration - (U) \$ 8,518 Continue EP-3E Platform Development and Integration - (U) \$ 4,428 Continue AF Special Platform Development and Integration - (U) \$ 4,011 Continue SPO Operations, Systems Engineering, Program Management Activities - (U) \$80,683 Total 										
Project 4817			Page 3 of 21 Pages				Exhibit R-2A (PE 0305206F)			

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE February 1999					
BUDGET ACTIVITY 7 - Operational System Development				PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems			PROJECT 4817					
(U) FY 2000 (\$ in Thousands):												
-	(U)	\$23,873	Continue Low Band SubSystem (LBSS) development and integration									
-	(U)	\$17,600	Continue High Band Subsystem (HBSS) development									
-	(U)	\$ 5,951	Continue Rivet Joint platform development for JSAF integration and testing									
-	(U)	\$15,389	Continue EP-3 platform development for JSAF integration and testing									
-	(U)	\$ 9,594	Continue AF Special platform development for JSAF integration and testing									
-	(U)	\$ 4,306	Begin Active Interference Cancellation (IC) and Modeling & Simulation (M&S) Efforts									
-	(U)	\$ 4,927	Continue SPO Operations, Systems Engineering, Program Management Activities									
-	(U)	\$81,640	Total									
 (U) FY 2001 (\$ in Thousands):												
-	(U)	\$13,475	Continue Low Band SubSystem (LBSS) development and integration									
-	(U)	\$ 4,672	Complete HBSS development and integration									
-	(U)	\$ 4,003	Continue Rivet Joint platform development for JSAF integration and testing									
-	(U)	\$ 7,261	Continue EP-3 platform development for JSAF integration and testing									
-	(U)	\$ 6,043	Continue AF Special platform development for JSAF integration and testing									
-	(U)	\$ 3,720	Continue Active Interference Cancellation (IC) and Modeling & Simulation (M&S) Efforts									
-	(U)	\$16,000	Begin Follow-On Program #1 Development									
-	(U)	\$11,564	Begin JSAF System Integration Laboratory Development									
-	(U)	\$ 4,740	Continue SPO Operations, Systems Engineering, Program Management Activities									
-	(U)	\$71,478	Total									
 (U) B. <u>Project Change Summary - Description of Significant Changes:</u>												
Funding for Airborne Reconnaissance Systems for FY99-05 was transferred to the Air Force (PE 0305206F) from Defense (PE 305206D).												
 (U) C. <u>Other Program Funding Summary (\$ in Thousands)</u>												
			<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	To	Total
(U)	PE 0305206D, Adv Sensors, P808, RDT&E,	105,384	0	0	0	0	0	0	0	0	<u>Compl</u>	<u>Cost</u>
	Defense-wide										Cont.	Cont.
 Note: FY98 funds are in PE 0305206D, Airborne Reconnaissance Advanced Development. Funding for FY99-05 transferred to PE 0305206F from PE 305206D as part of the DARO divestiture.												
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<p>(U) D. <u>Acquisition Strategy</u> The JSAF acquisition approach emphasizes full and open competition for the initial LBSS and HBSS development programs, as well as the FOPs that are planned at three year intervals beginning in 2001. A competitive source selection will be conducted for each new development effort. Estimated production costs will be a criteria for evaluation and determination of best value, thus providing justification for the follow-on sole source production contract. Although logistics support costs will not be a factor in best value determination for the initial HBSS and LBSS efforts due to the unknown variables of reliability, maintainability, mean time between failure, etc., of newly developed hardware and software, the initial contractor logistics support (CLS) contract will be awarded sole source to the successful developer. This approach ensures the government receives the best value for each JSAF effort, while providing incentive to the winning development contractor. The open architecture will provide competitive opportunities during each development effort to contractors who find innovative ways to use new technologies, while permitting maximum use of commercial-off-the-shelf (COTS) and government-off-the-shelf (GOTS) capabilities developed for other applications. With delivery of the core capability, the requirements community will agree on the next increment to be acquired - which will be competitively procured. The open systems architecture provides a vehicle for exploitation and integration of COTS and GOTS, allowing the government to refresh, upgrade, enhance and evolve its system capabilities. This follow-on, competitive effort is expected to run a 2 year development and 1 year test cycle.</p>																																																																																																																																																																																																
<p>(U) E. <u>Schedule Profile</u></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;"></th> <th colspan="3" style="text-align: center;"><u>FY 1998</u></th> <th colspan="3" style="text-align: center;"><u>FY 1999</u></th> <th colspan="3" style="text-align: center;"><u>FY 2000</u></th> <th colspan="3" style="text-align: center;"><u>FY 2001</u></th> </tr> <tr> <th style="text-align: left;">1</th> <th style="text-align: center;">2</th> <th style="text-align: center;">3</th> <th style="text-align: center;">4</th> <th style="text-align: center;">1</th> <th style="text-align: center;">2</th> <th style="text-align: center;">3</th> <th style="text-align: center;">4</th> <th style="text-align: center;">1</th> <th style="text-align: center;">2</th> <th style="text-align: center;">3</th> <th style="text-align: center;">4</th> </tr> </thead> <tbody> <tr> <td>(U) Engineering Milestones</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) Low Band SubSystem (LBSS)</td> <td></td><td></td><td></td><td style="text-align: center;">*</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td style="padding-left: 20px;">Critical Design Review (CDR)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) RJ-666 LBSS Flight Test Begins</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td style="text-align: center;">X</td><td></td><td></td> </tr> <tr> <td>(U) EP-3 LBSS Flight Test Begins</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td style="text-align: center;">X</td><td></td> </tr> <tr> <td>(U) AFS LBSS Flight Test Begins</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td style="text-align: center;">X</td> </tr> <tr> <td>(U) High Band Prototype (HBP) flight test complete; OCONUS deployment</td> <td></td><td></td><td></td><td style="text-align: center;">*</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) High Band SubSystem (HBSS) CDR</td> <td></td><td></td><td></td><td></td><td></td><td style="text-align: center;">X</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) HBSS Development Completed</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td style="text-align: center;">X</td><td></td> </tr> <tr> <td>(U) AFS HBSS Flight Test Begins</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td style="text-align: center;">X</td> </tr> <tr> <td>(U) JSAF Production Begins (procurement funds in platform PEs)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td style="text-align: center;">X</td><td></td> </tr> <tr> <td>(U) JSAF SIL Development Begins</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td style="text-align: center;">X</td><td></td> </tr> <tr> <td>(U) JSAF Follow-on Program #1 Begins</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td style="text-align: center;">X</td><td></td> </tr> </tbody> </table>													<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	(U) Engineering Milestones												(U) Low Band SubSystem (LBSS)				*								Critical Design Review (CDR)												(U) RJ-666 LBSS Flight Test Begins									X			(U) EP-3 LBSS Flight Test Begins										X		(U) AFS LBSS Flight Test Begins											X	(U) High Band Prototype (HBP) flight test complete; OCONUS deployment				*								(U) High Band SubSystem (HBSS) CDR						X						(U) HBSS Development Completed										X		(U) AFS HBSS Flight Test Begins											X	(U) JSAF Production Begins (procurement funds in platform PEs)										X		(U) JSAF SIL Development Begins										X		(U) JSAF Follow-on Program #1 Begins										X	
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BUDGET ACTIVITY
7 - Operational System Development

PE NUMBER AND TITLE
0305206F Airborne Reconnaissance Systems

<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

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BUDGET ACTIVITY 7 - Operational System Development	PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems	PROJECT 4817
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- (U) **Contract Milestones**
- (U) LBSS System Deliveries
- (U) HBSS Factory Acceptance Test (FAT)

X	X	X
	X	

* - Denotes completed event
X- Denotes planned event

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										DATE February 1999	
BUDGET ACTIVITY 7 - Operational System Development					PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems					PROJECT 4817	
(U) A. <u>Project Cost Breakdown (\$ in Thousands)</u>											
					<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>			
(U) Hardware Development					0	22,045	18,174	16,752			
(U) Software Development					0	18,188	13,252	17,309			
(U) Platform Integration					0	18,124	30,934	17,307			
(U) Integration and Test Support					0	5,944	4,511	5,297			
(U) System Engineering					0	12,371	9,866	10,073			
(U) Program Management					0	4,011	4,903	4,740			
(U) Total						80,683	81,640	71,478			
<p><u>Note:</u> FY98 funds are in PE 0305206D, Airborne Reconnaissance Advanced Development. Funding for FY99-05 transferred to PE 0305206F from PE 305206D as part of the DARO divestiture.</p>											
(U) B. <u>Budget Acquisition History and Planning Information (\$ in Thousands)</u>											
Performing Organizations:											
Contractor or Government	Contract Method/Type	Award or Obligation	Performing Activity	Project Office	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>FY 1998</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>		
<u>Product Development Organizations</u>											
Sanders (LBSS)	CPAF	Feb 97	131,000	131,000	0	0	42,002	23,873	13,475	Cont.	Cont.
TRW (HBSS)	CPAF	Dec 97	39,700	39,700	0	0	16,546	17,600	4,672	Cont.	Cont.
TBD (FOP, SIL, Active IC; M&S)	TBD	FY00/01	TBD	TBD	0	0	0	4,306	31,284	Cont.	Cont
Platform Integration (Includes AF, Army, Navy)	Various	Various	Various	Various	0	0	18,124	30,934	17,307	Cont.	Cont
<p><u>Note:</u> FY98 funds are in PE 0305206D, Airborne Reconnaissance Advanced Development. Funding for FY99-05 transferred to PE 0305206F from PE 305206D as part of the DARO divestiture.</p>											
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(U) B. Budget Acquisition History and Planning Information Continued (\$ in Thousands)											
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
<u>Support and Management Organizations</u>											
Various	Various	Various	Various	Various	0	0	4,011	4,927	4,740	Continuing	Continuing
<u>Test and Evaluation Organizations</u>											
N/A											
Government Furnished Property:											
Item Description	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Delivery Date		Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
<u>Product Development Property</u>											
None											
<u>Support and Management Property</u>											
None											
<u>Test and Evaluation Property</u>											
None											
Subtotal Product Development					0	0	76,672	76,713	66,738	Continuing	Continuing
Subtotal Support and Management					0	0	4,011	4,927	4,740	Continuing	Continuing
Subtotal Test and Evaluation					0	0	0	0	0	0	0
Total Project					0	0	80,683	81,640	71,478	Continuing	Continuing
Note: FY98 funds are in PE 0305206D, Airborne Reconnaissance Advanced Development. Funding for FY99-05 transferred to PE 0305206F from PE 305206D as part of the DARO divestiture.											
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BUDGET ACTIVITY 7 - Operational System Development					PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems				PROJECT 4818	
<i>COST (\$ In Thousands)</i>	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
4818 Advanced Technology	0	9,881	9,430	19,916	17,676	24,695	29,584	25,843	Continuing	Continuing
<p><u>Note:</u> FY98 funds are in PE 0305206D, Airborne Reconnaissance Advanced Development. Funding for FY99-05 transferred to PE 0305206F from PE 305206D as part of the DARO divestiture.</p> <p>(U) A. <u>Mission Description</u></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, or new system acquisitions by integrating and exercising them in developmental and operational tests. These technologies address high priority collection requirements critical to the future of airborne reconnaissance systems. Specific priorities for development include increased geolocation accuracy, advanced sensor data fusion, and high data rate communications. This project also includes funding for U-2 Defensive Systems development. Near term development and feasibility demonstrations of specific technologies are conducted, followed by transition into production systems to support operational capabilities.</p> <p>(U) <u>FY 1998 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> - (U) \$0 FY98 funds are in PE 0305206D, Airborne Reconnaissance Advanced Development. - (U) \$0 Total <p>(U) <u>FY 1999 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> - (U) \$ 2,920 High Data Rate Communications: Complete development of air-to-air lasercomm demonstration terminals. - (U) \$ 1,561 Modeling and Simulation: Develop software process model of Tactical Intelligence ground systems. - (U) \$ 2,900 SYERS P3I: Complete development and flight test of SYERS P3I sensor systems. - (U) \$ 2,000 Moving Target Exploitation (MTE): Begin Phase 1 development of automatic target recognition and imaging capability. - (U) \$ 500 Geolocation: Continue development of capability to coregister airborne imagery with national data bases. - (U) \$ 9,881 Total 										
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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE February 1999																						
BUDGET ACTIVITY 7 - Operational System Development				PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems			PROJECT 4818																						
<p>(U) <u>FY 2000 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> - (U) \$ 100 Sensor Fusion: MARS (Multi-Sensor Agile Reconnaissance System) risk reduction activities to integrate U-2 IMINT/ELINT/MASINT collection systems - (U) \$ 400 Geolocation: Continue development of coregistration of imagery in national data bases and application of advanced exploitation tools. - (U) \$ 330 High Data Rate Communications: Continue evaluation of air-to-air lasercomm system - (U) \$ 8,600 Defensive System: Initiate development of U-2 Defensive Systems and conduct risk reduction project - (U) \$ 9,430 Total <p>(U) <u>FY 2001 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> - (U) \$ 145 Sensor Fusion: Continue analysis of MARS airborne processing, data recorder, communication links and ground processing components and interfaces - (U) \$ 1,500 Geolocation: Continue development and begin transition of enhanced geolocation capability to ground systems. - (U) \$ 500 High Data Rate Communications: Complete air-to-air lasercomm evaluation - (U) \$ 17,771 Defensive System: Conduct FOTE flight test, complete risk reduction project, and initiate EMD for U-2 Defensive Systems - (U) \$ 19,916 Total <p>(U) B. <u>Project Change Summary - Description of Significant Changes:</u></p> <p>Funding for Airborne Reconnaissance Systems for FY99-05 was transferred to the Air Force (PE 0305206F) from Defense (PE 305206D).</p> <p>(U) C. <u>Other Program Funding Summary (\$ in Thousands)</u></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;"></th> <th style="text-align: center;"><u>FY 1998</u></th> <th style="text-align: center;"><u>FY 1999</u></th> <th style="text-align: center;"><u>FY 2000</u></th> <th style="text-align: center;"><u>FY 2001</u></th> <th style="text-align: center;"><u>FY 2002</u></th> <th style="text-align: center;"><u>FY 2003</u></th> <th style="text-align: center;"><u>FY 2004</u></th> <th style="text-align: center;"><u>FY 2005</u></th> <th style="text-align: center;"><u>To</u> <u>Compl</u></th> <th style="text-align: center;"><u>Total</u> <u>Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) PE 0305206D, Airborne Recon. Adv. Tech. Dev., P809, RDT&E, Defense-wide</td> <td style="text-align: center;">39,631</td> <td style="text-align: center;">0</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table> <p>Note: FY98 funds are in PE 0305206D, Airborne Reconnaissance Advanced Development. Funding for FY99-05 transferred to PE 0305206F from PE 305206D as part of the DARO divestiture.</p>									<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To</u> <u>Compl</u>	<u>Total</u> <u>Cost</u>	(U) PE 0305206D, Airborne Recon. Adv. Tech. Dev., P809, RDT&E, Defense-wide	39,631	0	0	0	0	0	0	0	N/A	N/A
	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To</u> <u>Compl</u>	<u>Total</u> <u>Cost</u>																			
(U) PE 0305206D, Airborne Recon. Adv. Tech. Dev., P809, RDT&E, Defense-wide	39,631	0	0	0	0	0	0	0	N/A	N/A																			
Project 4818		Page 10 of 21 Pages				Exhibit R-2A (PE 0305206F)																							

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
7 - Operational System Development	0305206F Airborne Reconnaissance Systems	4818
<p>(U) D. <u>Acquisition Strategy</u></p> <p>The program targets high payoff technologies to satisfy critical unmet airborne reconnaissance collection requirements. Funds are provided to begin development and insertion of these technologies, and to reduce risk associated with their implementation in production systems. Emphasis is placed on maximizing commercial and national development efforts and investment. Funds are provided to various government laboratories and program offices to conduct these technology development efforts. Multiple contracting methods are used including the use of Engineering Change Proposals (ECPs) to modify existing contracts. Contracts have been awarded both competitively and on a sole source basis.</p>		
Project 4818	Page 11 of 21 Pages	Exhibit R-2A (PE 0305206F)

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)													DATE February 1999						
BUDGET ACTIVITY 7 - Operational System Development						PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems							PROJECT 4818						
(U) E. Schedule Profile																			
		<u>FY 1998</u>					<u>FY 1999</u>					<u>FY 2000</u>					<u>FY 2001</u>		
(U) Acquisition Milestones	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
(U) Sensor Fusion																			
(U) MARS Phase 0 Contract Award			*																
(U) MTE																			
(U) Conduct MTE testbed demonstration				*															
(U) Begin Phase 1 MTE development						X													
(U) Modeling and Simulation																			
(U) Continue Tactical GS software model				*															
(U) Report Tactical GS simulation results						X													
(U) Geolocation																			
(U) PDR		*																	
(U) CDR						X													
(U) Test Readiness Review										X									
(U) Factory Acceptance Test														X					
(U) SYERS P3I																			
(U) Flight Test SYERS S/N 7							X												
(U) Flight Test SYERS S/N 8								X											
(U) HDR Communications																			
(U) Continue data terminal development	*																		
(U) Begin data terminal concept phase			*																
(U) Laser Terminal Lab Test								X											
(U) U-2 Defensive Systems																			
(U) U-2 Advanced Defensive System (ADS) milestone 2								X											
(U) ADS Phase 2 contract award										X									
(U) ADS ground test of SIRFC																X			
*-Denotes completed event X-Denotes planned event																			

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										DATE February 1999	
BUDGET ACTIVITY 7 - Operational System Development					PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems					PROJECT 4818	
(U) A. <u>Project Cost Breakdown (\$ in Thousands)</u>											
					<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>			
(U) Hardware and Software Development					0	7,236	7,464	15,817			
(U) Systems Engineering					0	450	140	295			
(U) Contractor Engineering Support					0	1,611	900	1,927			
(U) Government Engineering Support					0	584	926	1,877			
(U) Total					0	9,881	9,430	19,916			
<p><u>Note:</u> FY98 funds are in PE 0305206D, Airborne Reconnaissance Advanced Development. Funding for FY99-05 transferred to PE 0305206F from PE 305206D as part of the DARO divestiture.</p>											
(U) B. <u>Budget Acquisition History and Planning Information (\$ in Thousands)</u>											
Performing Organizations:											
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
<u>Product Development Organizations</u>											
Raytheon	Various	ongoing	TBD	TBD	0	0	1,500	0	0	0	1,500
Lockheed Martin	Various	ongoing	TBD	TBD	0	0	1,255	0	0	0	1,255
Skunkworks											
Marconi Information Systems	FPLOE	18 Nov 96	TBD	TBD	0	0	475	380	1,425	Continuing	Continuing
Trex Enterprises	CPFF	9 Aug 96	TBD	TBD	0	0	1,900	0	0	0	1,900
Veridian	CPFF	9 Aug 96	TBD	TBD	0	0	325	0	0	0	325
Def Syst Contr	TBD	TBD	TBD	TBD	0	0	0	8,170	16,882	Continuing	Continuing
Other	TBD	TBD	TBD	TBD	0	0	2,449	411	619	Continuing	Continuing

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										DATE February 1999	
BUDGET ACTIVITY 7 - Operational System Development					PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems					PROJECT 4818	
(U) B. Budget Acquisition History and Planning Information Continued (\$ in Thousands)											
<u>Support and Management Organizations</u>											
Other Gov't Orgs	Multiple	Multiple	TBD	TBD	0	0	1,977	469	990	Continuing	Continuing
<u>Test and Evaluation Organizations</u>											
N/A											
Government Furnished Property:											
	Contract				Total						
Item	Method/Type	Award or			Prior to	Budget	Budget	Budget	Budget	Budget to	Total
<u>Description</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Delivery</u>		<u>FY 1998</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>								
<u>Product Development Property</u>											
None											
<u>Support and Management Property</u>											
None											
<u>Test and Evaluation Property</u>											
None											
Subtotal Product Development					0	0	7,904	8,961	18,926	Continuing	Continuing
Subtotal Support and Management					0	0	1,977	469	990	Continuing	Continuing
Subtotal Test and Evaluation					0	0	0	0	0	N/A	N/A
Total Project					0	0	9,881	9,430	19,916	Continuing	Continuing
<p>Note: FY98 funds are in PE 0305206D, Airborne Reconnaissance Advanced Development. Funding for FY99-05 transferred to PE 0305206F from PE 305206D as part of the DARO divestiture.</p>											
Project 4818				Page 14 of 21 Pages				Exhibit R-3 (PE 0305206F)			

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE February 1999		
BUDGET ACTIVITY 7 - Operational System Development				PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems				PROJECT 4819		
COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
4819 Common Data Link (CDL)	0	35,838	33,538	45,197	38,831	46,527	47,503	48,489	Continuing	Continuing
<p><u>Note:</u> FY98 funds are in PE 0305206D, Airborne Reconnaissance Advanced Development. Funding for FY99-05 transferred to PE 0305206F from PE 305206D as part of the DARO divestiture.</p> <p>(U) A. <u>Mission Description</u></p> <p>The objective of the CDL effort within the Air Force 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(including video), Multi-spectral and other 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.</p> <p>(U) <u>FY 1998 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> - (U) \$0 FY98 funds are in PE 0305206D, Airborne Reconnaissance Advanced Development. - (U) \$0 Total 										
Project 4819			Page 15 of 21 Pages				Exhibit R-2A (PE 0305206F)			

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE February 1999
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
7 - Operational System Development	0305206F Airborne Reconnaissance Systems	4819
<p>(U) <u>FY 1999 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> - (U) \$ 3,317 Continue configuration control of CDL architecture, specifications and modules. - (U) \$ 4,045 Continue development of CDL and TCDL interface to additional platforms. - (U) \$ 3,140 Continue to assess development of commercial network interface standards and impact to CDL interface. - (U) \$ 10,500 Continue engineering and integration of commercial satellite communication network to support airborne reconnaissance platform relay requirements. - (U) \$ 450 Begin engineering and integration support of airborne reconnaissance platform requirements into National Space Communications Program. - (U) \$ 5,500 Complete covert waveform development/miniaturization/air-to-air link under the ABIT program. - (U) \$ 486 Continue SATCOM interoperability enhancements. - (U) \$ 5,300 Complete Tactical CDL flight demonstration. - (U) \$ 600 Continue transition to wideband bulk encryption on all CDL systems. - (U) \$ 2,500 Begin development of Dual Data Link II (DDL-2) for the U-2 - (U) \$ 35,838 Total <p>(U) <u>FY 2000 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> - (U) \$ 15,380 Continue engineering and integration of commercial satellite communication network to support airborne reconnaissance platform relay requirements. - (U) \$ 2,000 Continue development of Tactical CDL demonstration hardware and flight demonstration, and continue to develop design for operational suitability on ISR platforms including Predator - (U) \$ 4,000 Continue covert waveform development/miniaturization/air-to-air link under the ABIT program and continue integration engineering of ABIT in ISR platforms including RC-135and Global Hawk. - (U) \$ 2,664 Continue to assess development of commercial network interface standards and incorporation of commercial technologies where practical to the CDL interface including ATM on U-2/SYERS P3I. - (U) \$ 3,000 Continue configuration control of CDL architecture, specifications, and modules. - (U) \$ 526 Continue development of link modifications to incorporate wideband bulk encryption - (U) \$ 1,049 Continue SATCOM interoperability enhancements - (U) \$ 3,419 Continue development of CDL and TCDL interface to additional platforms including ARL - (U) \$ 1,500 Continue development of Dual Data link upgrade for U-2 - (U) \$ 33,538 Total 		
Project 4819	Page 16 of 21 Pages	Exhibit R-2A (PE 0305206F)

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE February 1999																						
BUDGET ACTIVITY 7 - Operational System Development				PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems			PROJECT 4819																						
<p>(U) <u>FY 2001 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> - (U) \$ 18,126 Continue engineering and integration of commercial satellite communication network to support airborne reconnaissance platform relay requirements and lease one additional transponder to support Predator and Global Hawk - (U) \$ 4,000 Continue development of Tactical CDL demonstration hardware and flight demonstration, and continue to develop design for operational suitability on ISR platforms including flight demonstration on ARL and LAMPS and ATM interface upgrade. - (U) \$ 5,129 Continue covert waveform development/miniaturization/air-to-air link under the ABIT program and continue integration engineering of ABIT in ISR platforms including RC-135 and Global Hawk - (U) \$ 4,164 Continue to assess development of commercial network interface standards and incorporation of commercial technologies where practical to the CDL interface including U-2/RAS-1R and Global Hawk SAR. - (U) \$ 3,549 Continue configuration control of CDL architecture, specifications, and modules. - (U) \$ 1,310 Continue development of link modifications to incorporate wideband bulk encryption - (U) \$ 1,500 Continue SATCOM interoperability enhancements - (U) \$ 5,419 Continue development of CDL interface to additional platforms including TIGDL interface upgrade - (U) \$ 2,000 Continue development of DDL-2 - (U) \$ 45,197 Total <p>(U) B. <u>Project Change Summary - Description of Significant Changes:</u> Funding for Airborne Reconnaissance Systems for FY99-05 was transferred to the Air Force (PE 0305206F) from Defense (PE 305206D).</p> <p>(U) C. <u>Other Program Funding Summary (\$ in Thousands)</u></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;"></th> <th style="text-align: center;"><u>FY 1998</u></th> <th style="text-align: center;"><u>FY 1999</u></th> <th style="text-align: center;"><u>FY 2000</u></th> <th style="text-align: center;"><u>FY 2001</u></th> <th style="text-align: center;"><u>FY 2002</u></th> <th style="text-align: center;"><u>FY 2003</u></th> <th style="text-align: center;"><u>FY 2004</u></th> <th style="text-align: center;"><u>FY 2005</u></th> <th style="text-align: center;"><u>To</u></th> <th style="text-align: center;"><u>Total</u></th> </tr> </thead> <tbody> <tr> <td>(U) PE 0305206D, CDL, P810, RDT&E, Defense-wide</td> <td style="text-align: center;">43,430</td> <td style="text-align: center;">0</td> <td style="text-align: center;"><u>Compl</u> Cont.</td> <td style="text-align: center;"><u>Cost</u> Cont.</td> </tr> </tbody> </table> <p><u>Note:</u> FY98 funds are in PE 0305206D, Airborne Reconnaissance Advanced Development. Funding for FY99-05 transferred to PE 0305206F from PE 305206D as part of the DARO divestiture.</p> <p>(U) D. <u>Acquisition Strategy</u></p> <p>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. 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.</p>									<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To</u>	<u>Total</u>	(U) PE 0305206D, CDL, P810, RDT&E, Defense-wide	43,430	0	0	0	0	0	0	0	<u>Compl</u> Cont.	<u>Cost</u> Cont.
	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To</u>	<u>Total</u>																			
(U) PE 0305206D, CDL, P810, RDT&E, Defense-wide	43,430	0	0	0	0	0	0	0	<u>Compl</u> Cont.	<u>Cost</u> Cont.																			
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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)													DATE February 1999			
BUDGET ACTIVITY 7 - Operational System Development						PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems						PROJECT 4819				
(U) E. <u>Schedule Profile</u>																
	<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) Continue Commercial Satellite Transponder Leases					*				X				X			
(U) Start Tactical CDL Phase 2 Detail Design/CDL Interoperability Testing		*														
(U) Complete Phase 2 Tactical CDL Flight Demo on Predator							X									
(U) Phase 2a Tactical CDL Dev. Program Complete on Predator												X				
(U) Begin TCDL modification for ARL						X										
(U) Field TCDL on ARL									X							
(U) U-2 ABIT Prototype Delivery		*														
(U) Initial ABIT U-2 Testing Complete					*											
(U) Complete ABIT RC-135 Design								X								
(U) ABIT RC-135 Flight test														X		
(U) CDL/TARS Pod Integration Study								X								
(U) ABIT Global Hawk Devel Study								X								
(U) Complete SATCOM Interop Study			*													
(U) Start ARL/CDL SATCOM Design		*														
(U) Complete ARL SATCOM Design			*													
(U) ARL SATCOM Testing				*												
(U) Begin U-2 DDL 2 Development						X										
(U) U-2 DDL (U-2 Flight Test)													X			
(U) Global Hawk DDL modification														X		
(U) Begin TIGDL interface upgrade							X									
*-Denotes completed event X-Denotes planned event																

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)	DATE February 1999
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BUDGET ACTIVITY 7 - Operational System Development	PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems	PROJECT 4819
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(U) A. Project Cost Breakdown (\$ in Thousands)

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
(U) Hardware and Software Development	0	12,758	8,034	13,408
(U) Systems Engineering	0	4,384	3,463	4,771
(U) Satellite Communications	0	10,500	15,380	18,126
(U) Configuration Management	0	4,002	3,679	4,540
(U) Contractor Engineering Support	0	3,399	2,278	3,321
(U) Government Engineering Support	0	795	704	1,031
(U) Total	0	35,838	33,538	45,197

Note: FY98 funds are in PE 0305206D, Airborne Reconnaissance Advanced Development. Funding for FY99-05 transferred to PE 0305206F from PE 305206D as part of the DARO divestiture.

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										DATE February 1999	
BUDGET ACTIVITY 7 - Operational System Development					PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems					PROJECT 4819	
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)											
Performing Organizations:											
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
<u>Product Development Organizations</u>											
L3Com California Microwave Harris Corp	Multiple CPFF	Multiple Mar 99	Ongoing TBD	Ongoing TBD	0	0	12,461	8,440	15,211	Continuing	Continuing
Crypto Mfr - TBD	Other Transaction	23 Jul 97	TBD	TBD	0	0	2,517	950	1,900	Continuing	Continuing
Other	TBD	TBD	TBD	TBD	0	0	600	526	1,310	Continuing	Continuing
Other	Multiple	Multiple	Ongoing	Ongoing	0	0	1,653	1,747	149	Continuing	Continuing
<u>Support and Management Organizations</u>											
COMSAT RSI	FFP	17 Jul 95	Ongoing	Ongoing	0	0	10,500	15,380	18,126	Continuing	Continuing
Various	Multiple	Multiple	Ongoing	Ongoing	0	0	5,377	4,785	6,253	Continuing	Continuing
<u>Test and Evaluation Organizations</u>											
JITC	MIPR	FY99	Ongoing	Ongoing	0	0	230	210	248	Continuing	Continuing
<p><u>Note:</u> FY98 funds are in PE 0305206D, Airborne Reconnaissance Advanced Development. Funding for FY99-05 transferred to PE 0305206F from PE 305206D as part of the DARO divestiture.</p>											
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 1999			
BUDGET ACTIVITY 7 - Operational System Development				PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems				PROJECT 4819		
(U) B. <u>Budget Acquisition History and Planning Information Continued (\$ in Thousands)</u>										
Government Furnished Property:										
<u>Item Description</u>	<u>Contract Method/Type or Funding Vehicle</u>	<u>Award or Obligation Date</u>	<u>Delivery Date</u>	<u>Total Prior to FY 1998</u>	<u>Budget FY 1998</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Product Development Property</u>										
None										
<u>Support and Management Property</u>										
None										
<u>Test and Evaluation Property</u>										
None										
Subtotal Product Development				0	0	19,731	13,163	20,570	Continuing	Continuing
Subtotal Support and Management				0	0	15,877	20,165	24,379	Continuing	Continuing
Subtotal Test and Evaluation				0	0	230	210	248	Continuing	Continuing
Total Project				0	0	35,838	33,538	45,197	Continuing	Continuing
<p><u>Note:</u> FY98 funds are in PE 0305206D, Airborne Reconnaissance Advanced Development. Funding for FY99-05 transferred to PE 0305206F from PE 305206D as part of the DARO divestiture.</p>										
Project 4819				Page 21 of 21 Pages			Exhibit R-3 (PE 0305206F)			

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