

**RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)**

DATE

**June 2001**

BUDGET ACTIVITY

**07 - Operational System Development**

PE NUMBER AND TITLE

**0305206F Airborne Reconnaissance Systems**

COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	138,385	144,190	77,766	129,888	146,911	116,040	116,752	119,468	Continuing	TBD
4817 Joint SIGINT Avionics Family (JSAF)	94,662	94,248	36,381	62,573	70,247	46,985	48,060	49,075	Continuing	TBD
4818 Imaging and Targeting Support	14,015	2,106	1,091	18,313	29,522	25,789	26,330	26,886	Continuing	TBD
4819 Common Data Link (CDL)	29,708	43,014	35,406	44,108	42,063	37,998	36,984	38,015	Continuing	TBD
4882 Compass Bright	0	4,822	4,888	4,894	5,079	5,268	5,378	5,492	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	Continuing	TBD

FY03-FY07 budget numbers do not reflect DoD's strategic review results.

**(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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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)			DATE	
			June 2001	
BUDGET ACTIVITY		PE NUMBER AND TITLE		
<b>07 - Operational System Development</b>		<b>0305206F Airborne Reconnaissance Systems</b>		
(U)	<b><u>C. Program Change Summary (\$ in Thousands)</u></b>			
		<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>
	<u>Total Cost</u>			
(U)	Previous President's Budget (FY 2001 PBR)	136,221	136,913	105,398
(U)	Appropriated Value	139,608	157,913	
(U)	Adjustments to Appropriated Value			
	a. Congressional/General Reductions	-2,638		
	b. Small Business Innovative Research	-619		
	c. Omnibus or Other Above Threshold Reprogram	-210	-12,300	
	d. Below Threshold Reprogram	2,790		
	e. Rescissions	-546	-1,423	
(U)	Adjustments to Budget Years Since FY 2001 PBR			-27,632
(U)	Current Budget Submit/FY 2002 PBR	138,385	144,190	77,766
(U)	<b><u>Significant Program Changes:</u></b>			
	Funding for U-2 Advanced Defensive Systems in FY01-03 was transferred to PE 0305202F, Dragon U-2. Funding for Compass Bright in FY01-05 was transferred from PE 0305206G into PE 0305206F.			
	FY01 funding of \$12.3M was transferred from RDT&E appropriation to the O&M appropriation to provide funding for the leasing of Commercial Satellites Transponders.			
	FY02 \$9.0M added for Multi Platform Common Data Link (MP-CDL) funding.			

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<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>									DATE <b>June 2001</b>																													
BUDGET ACTIVITY <b>07 - Operational System Development</b>					PE NUMBER AND TITLE <b>0305206F Airborne Reconnaissance Systems</b>					PROJECT <b>4817</b>																												
COST (\$ in Thousands)		FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost																											
4817	Joint SIGINT Avionics Family (JSAF)	94,662	94,248	36,381	62,573	70,247	46,985	48,060	49,075	Continuing	TBD																											
<p>FY03-FY07 budget numbers do not reflect DoD's strategic review results.</p> <p>(U) <b><u>A. Mission Description</u></b>            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 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. Producible JSAF components will be provided for the airborne fleet (manned and unmanned) for integration on the Air Force's RC-135V/W (Rivet Joint), the Army's Aerial Common Sensor (ACS) platform, the Air Force's Global Hawk, the Navy's EP-3E, and the future multi-mission aircraft. JSAF concept &amp; technology development and system development &amp; demonstration efforts support continuous improvements and implementation of C2ISR capabilities to enable a joint global strike task force.</p> <p>(U) <b><u>FY 2000 (\$ in Thousands)</u></b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 5%;">(U)</td> <td style="width: 15%;">\$41,275</td> <td>Continue Low Band SubSystem (LBSS) development and integration</td> </tr> <tr> <td>(U)</td> <td>\$22,122</td> <td>Continue High Band Subsystem (HBSS) development</td> </tr> <tr> <td>(U)</td> <td>\$7,362</td> <td>Continue Rivet Joint platform development for JSAF integration and testing</td> </tr> <tr> <td>(U)</td> <td>\$13,000</td> <td>Continue EP-3 platform development for JSAF integration and testing</td> </tr> <tr> <td>(U)</td> <td>\$4,341</td> <td>Continue U-2 platform development for JSAF integration and testing</td> </tr> <tr> <td>(U)</td> <td>\$1,000</td> <td>Begin ACS platform development for JSAF integration and testing</td> </tr> <tr> <td>(U)</td> <td>\$2,191</td> <td>Begin Active Interference Cancellation (IC) and Modeling &amp; Simulation (M&amp;S) Efforts</td> </tr> <tr> <td>(U)</td> <td>\$3,371</td> <td>Continue SPO Operations, Systems Engineering, Program Management Activities</td> </tr> <tr> <td>(U)</td> <td>\$94,662</td> <td>Total</td> </tr> </table>												(U)	\$41,275	Continue Low Band SubSystem (LBSS) development and integration	(U)	\$22,122	Continue High Band Subsystem (HBSS) development	(U)	\$7,362	Continue Rivet Joint platform development for JSAF integration and testing	(U)	\$13,000	Continue EP-3 platform development for JSAF integration and testing	(U)	\$4,341	Continue U-2 platform development for JSAF integration and testing	(U)	\$1,000	Begin ACS platform development for JSAF integration and testing	(U)	\$2,191	Begin Active Interference Cancellation (IC) and Modeling & Simulation (M&S) Efforts	(U)	\$3,371	Continue SPO Operations, Systems Engineering, Program Management Activities	(U)	\$94,662	Total
(U)	\$41,275	Continue Low Band SubSystem (LBSS) development and integration																																				
(U)	\$22,122	Continue High Band Subsystem (HBSS) development																																				
(U)	\$7,362	Continue Rivet Joint platform development for JSAF integration and testing																																				
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(U)	\$2,191	Begin Active Interference Cancellation (IC) and Modeling & Simulation (M&S) Efforts																																				
(U)	\$3,371	Continue SPO Operations, Systems Engineering, Program Management Activities																																				
(U)	\$94,662	Total																																				
Project 4817			Page 3 of 23 Pages				Exhibit R-2A (PE 0305206F)																															

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE			
							June 2001			
BUDGET ACTIVITY	PE NUMBER AND TITLE					PROJECT				
<b>07 - Operational System Development</b>	<b>0305206F Airborne Reconnaissance Systems</b>					<b>4817</b>				
<b>(U) A. Mission Description Continued</b>										
<b>(U) <u>FY 2001 (\$ in Thousands)</u></b>										
(U) \$54,500	Terminate Low Band SubSystem (LBSS) development and integration									
(U) \$18,710	Continue High Band SubSystem (HBSS) development and integration									
(U) \$7,200	Continue EP-3 platform development for JSAF integration and testing									
(U) \$3,500	Continue ACS platform development for JSAF integration and testing									
(U) \$975	Continue Rivet Joint platform development									
(U) \$4,033	Complete Active Interference Cancellation (IC) and continue Modeling & Simulation (M&S) Efforts									
(U) \$5,330	Continue SPO Operations, Systems Engineering, Program Management Activities									
(U) \$94,248	Total									
The following net transactions are not reflected in the FY01 program total: BTR -\$3.141M. These transactions are not reflected in other sections of the R-Docs where an FY01 total is shown.										
<b>(U) <u>FY 2002 (\$ in Thousands)</u></b>										
(U) \$28,700	Continue High Band SubSystem (HBSS) development and integration									
(U) \$2,021	Continue Modeling and Simulation (M&S) Efforts									
(U) \$5,560	Continue SPO Operations, Systems Engineering, Program Management Activities									
(U) \$100	Continue platform (RC-135, EP-3, ACS, Global Hawk) development for JSAF integration and testing									
(U) \$36,381	Total									
<b>(U) B. Project Change Summary</b>										
Low Band SubSystem development and integration will be terminated in FY01 due to poor cost and schedule performance. Integration and flight test of JSAF on the U-2 will be terminated in FY01 due to an AF corporate decision not to procure JSAF for the U-2. The start of the Evolutionary Upgrade efforts was delayed from FY00 to FY03 per AF corporate decision.										
<b>(U) C. Other Program Funding Summary (\$ in Thousands)</b>										
	<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>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) None										

<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>	DATE <b>June 2001</b>
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BUDGET ACTIVITY <b>07 - Operational System Development</b>	PE NUMBER AND TITLE <b>0305206F Airborne Reconnaissance Systems</b>	PROJECT <b>4817</b>
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(U) **D. Acquisition Strategy**

The JSAF acquisition approach emphasized full and open competition for the initial LBSS and HBSS development programs, as well as the Evolutionary Upgrades. Due to funding constraints in FY02, the current LBSS development program will be terminated. Planning will begin in FY02 to compete a follow-on effort titled JSAF Airborne Narrowband Subsystem (JANS), with a contract award in FY04. A competitive source selection will be conducted for this contract. 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.

(U) **E. Schedule Profile**

	<u>FY 2000</u>				<u>FY 2001</u>				<u>FY 2002</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) LBSS contract termination									X			
(U) JANS contract planning										X		
(U) HBSS Factory Acceptance Test (FAT)							*					
(U) HBSS PCU ( Production Unit) PDR												X
* - Denotes completed event												
X- Denotes planned event												

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE June 2001			
BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems			PROJECT 4817		
<b>(U) A. Project Cost Breakdown (\$ in Thousands)</b>										
						<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>
(U)	Hardware Development					23,612		27,807		11,060
(U)	Software Development					20,988		24,718		9,831
(U)	Platform Integration					25,703		11,675		100
(U)	Integration and Test Support					8,068		9,269		3,686
(U)	Systems Engineering					13,118		15,449		6,144
(U)	Program Management					3,173		5,330		5,560
(U)	Total					94,662		94,248		36,381
<b>(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)</b>										
<b>(U) Performing Organizations:</b>										
<u>Contractor or Government</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Performing Activity</u>	<u>Project Office</u>	<u>Total Prior to FY 2000</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>						
<u>Product Development Organizations</u>										
BAE (LBSS)	CPAF	Feb 97	200,714	200,714	104,939	41,275	54,500			200,714
TRW (HBSS)	CPAF	Dec 97	110,100	110,100	30,965	22,122	18,710	28,700	9,603	110,100
Active IC; M&S	TBD	FY03	TBD	TBD	0	2,191	4,033	2,021	Continuing	TBD
Platform Integration (Includes AF, Army, Navy)	Various	Various			64,421	25,703	11,675	0	Continuing	TBD
<u>Support and Management Organizations</u>										
Various	Various	Various			19,181	3,173	5,330	5,660	Continuing	TBD
<u>Test and Evaluation Organizations</u>										
AFFTC Edwards AFB	Project Order	Various				198	0	0	Continuing	TBD
Note: Funds prior to FY99 are in PE 0305206D, Airborne Reconnaissance Advanced Development.										

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<b>RDT&amp;E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)</b>					DATE <b>June 2001</b>	
BUDGET ACTIVITY			PE NUMBER AND TITLE			PROJECT
<b>07 - Operational System Development</b>			<b>0305206F Airborne Reconnaissance Systems</b>			<b>4817</b>
	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
	<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>	<u>Program</u>
<u>Subtotals</u>						
Subtotal Product Development	200,325	91,291	88,918	30,721	TBD	TBD
Subtotal Support and Management	19,181	3,173	5,330	5,660	TBD	TBD
Subtotal Test and Evaluation		198	0	0	TBD	TBD
Total Project	219,506	94,662	94,248	36,381	TBD	TBD

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)									DATE June 2001		
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems					PROJECT 4818		
COST (\$ in Thousands)		FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
4818	Imaging and Targeting Support	14,015	2,106	1,091	18,313	29,522	25,789	26,330	26,886	Continuing	TBD
<p>Note: This project was formerly called Advanced Technology. The name change does not constitute a new start, rather it more correctly describes ongoing activities. Funding for the U-2 Advanced Defense System transferred to PE 0305202F beginning in FY01. FY03-FY07 budget numbers do not reflect DoD's strategic review results.</p> <p>(U) <b>A. Mission Description</b></p> <p>The purpose of Imaging and Targeting Support (I&amp;TS) is to develop next generation, common imagery reconnaissance sensors (such as radar and electro-optical systems) for multiple airborne platforms and sensor products to aid in rapid targeting (such as geolocation models, sensor-based exploitation tools, sensor networking and dynamic retasking systems). Developmental efforts pursued are improved sensors (including hyperspectral imaging, MASINT sensors, polarimetric imaging, ground moving target indication, foliage penetration, and other radar and electro-optical modes), increased geolocation accuracy, advanced sensor data correlation, improved target identification probability, and other ISR technologies to reduce both target search and kill chain timelines, as well as, supporting traditional intelligence activities. I&amp;TS will increase interoperability amongst developed systems (such as common standards and tools). I&amp;TS focuses on the following thrust areas:</p> <p>Common IMINT Sensor Development: Development of common radar and electro-optical sensors (e.g., Synthetic Aperture Radar (SAR), Electro Optical (EO), Infrared (IR), Foliage Penetration (FOPEN) and Hyperspectral Imaging (HSI)) and their operational modes (e.g., High Range Resolution and Moving Target Imaging) for multiple platforms.</p> <p>Sensor Processing and Networking: Development of advanced sensor exploitation algorithms and tools (e.g. Coherent Change Detection). Development of multi-INT and multi-platform sensor networking, cross-cueing and dynamic retasking systems [e.g. Airborne Targeting and Cross Cueing System (ATACCS), Network Centric Collaborative Targeting (NCCT), Multi-Platform Target Exploitation (MPTE)]. These efforts focus on speeding up target detection, tracking and identification timelines and reducing operator and decision-maker workloads from within the sensor.</p> <p>IMINT Systems Engineering: Development and implementation of imagery standards (e.g., Common GMTI, NITF for HSI). Incorporates systematic enhancement of product quality (e.g., imagery, GMTI data, and spectral accuracy) from sensor to user based on all components within the image chain to include the development and evaluation of IMINT sensor models.</p> <p>This project also included funding for the U-2 Advanced Defensive System development and the High Data Rate Communications evaluation in FY00.</p>											
Project 4818		Page 8 of 23 Pages					Exhibit R-2A (PE 0305206F)				

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE June 2001
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
<b>07 - Operational System Development</b>	<b>0305206F Airborne Reconnaissance Systems</b>	<b>4818</b>
<b>(U) <u>A. Mission Description Continued</u></b>		
<b>(U) <u>FY 2000 (\$ in Thousands)</u></b>		
(U) \$100	Sensor Fusion: ATACCS risk reduction activities to integrate U-2 IMINT/MASINT collection systems	
(U) \$400	Geolocation: Continue development of coregistration of imagery in national data bases and application of advanced exploitation tools.	
(U) \$100	High Data Rate Communications: Continue evaluation of air-to-air lasercomm system	
(U) \$4,815	Continue MPTE development & evaluation	
(U) \$8,600	Advanced Defensive System: Initiate development of U-2 Defensive Systems and conduct risk reduction project	
(U) \$14,015	Total	
<b>(U) <u>FY 2001 (\$ in Thousands)</u></b>		
(U) \$898	Sensor Processing and Networking: Continue analysis of ATACCS airborne processing, communication links and ground processing components and interfaces, conduct ATACCS demonstrations. Continue MPTE development and evaluation.	
(U) \$1,081	IMINT Systems Engineering: Continue development and fielding of geolocation sensor models. Continue development of enhanced geolocation capability to ground systems.	
(U) \$127	SPO Support	
(U) \$2,106	Total	
<b>(U) <u>FY 2002 (\$ in Thousands)</u></b>		
(U) \$548	Sensor Processing and Networking: Continue analysis of ATACCS airborne processing, communication links and ground processing components and interfaces. Conduct additional ATACCS demonstrations in preparation for EMD. Study/demonstrate Auto Registration/MASINT Tracker technologies. Investigate dynamic sensor planning concepts.	
(U) \$389	IMINT Systems Engineering: Continue development and fielding of geolocation sensor models. Investigate collaborative targeting techniques. Begin development of Image Quality assessment program.	
(U) \$50	Common IMINT Sensor Development. Initiate studies to transition HSI technology and hardware into U-2 and UAVs.	
(U) \$104	SPO Support	
(U) \$1,091	Total	
<b>(U) <u>B. Project Change Summary</u></b>		
MTE (+\$4,815) in FY00, this effort continues activity identified in FY00 PB.		
Project 4818	Page 9 of 23 Pages	Exhibit R-2A (PE 0305206F)

**RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)**

DATE  
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BUDGET ACTIVITY <b>07 - Operational System Development</b>	PE NUMBER AND TITLE <b>0305206F Airborne Reconnaissance Systems</b>	PROJECT <b>4818</b>
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(U) **C. Other Program Funding Summary (\$ in Thousands)**

	<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>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) PE 0305202F, Dragon U-2 (3600 RDT&E)	0	32,318	22,671	3,938	1,936	1,931	1,970	2,009	Continuing	TBD

(U) **D. Acquisition Strategy**

The program targets high payoff technologies ready to integrate into operational systems to satisfy critical unmet airborne imagery sensor and targeting system requirements. Funds are provided to develop these systems, and to reduce risk associated with their implementation in production systems. Emphasis is placed on maximizing commercial and national development efforts and investment. Multiple contracting methods are used including the use of Engineering Change Proposals (ECPs) to modify existing contracts and new contracts. Contracts have been awarded both competitively and on a sole source basis.

(U) **E. Schedule Profile**

	<u>FY 2000</u>			<u>FY 2001</u>			<u>FY 2002</u>					
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Sensor Processing and Networking												
(U) - ATACCS Phase I Contract Award			*									
(U) - ATACCS Risk Reduction Demos				*				X		X	X	X
(U) - ATACCS Risk Reduction Complete												X
(U) - Multi-Platform Target Exploitation (MPTE)												
(U) -- Phase I MPTE development						*						
(U) IMINT Systems Engineering												
(U) - Geolocation												
(U) - CDR		*										
(U) - Test Readiness Review					*							
(U) - Report Generation									X		X	
(U) Common IMINT Sensor Development												
(U) - SYERS P3I												
(U) -- Flight Test SYERS S/N 8			*									
(U) HDR Communications												
(U) - Laser Terminal Lab Test			*									

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BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT				
<b>07 - Operational System Development</b>					<b>0305206F Airborne Reconnaissance Systems</b>					<b>4818</b>				
<b>(U) E. Schedule Profile Continued</b>														
		<u>FY 2000</u>					<u>FY 2001</u>					<u>FY 2002</u>		
	1	2	3	4	1		2	3	4	1		2	3	4
(U)	U-2 Defensive Systems													
(U)	- U-2 Advanced Defensive System (ADS) milestone 2													
(U)	- ADS Phase 2 contract award													
	* - Denotes completed event													
	X - Denotes planned event													

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE June 2001				
BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems			PROJECT 4818			
(U) <b><u>A. Project Cost Breakdown (\$ in Thousands)</u></b>											
						<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>	
(U)	Hardware and Software Development					11,449		1,566		687	
(U)	Systems Engineering					340		295		150	
(U)	Contractor Engineering Support					1,300		150		50	
(U)	Government Engineering Support					926		95		204	
(U)	Total					14,015		2,106		1,091	
(U) <b><u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u></b>											
(U) <b><u>Performing Organizations:</u></b>											
	<u>Contractor or Government</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Performing Activity</u>	<u>Project Office</u>	<u>Total Prior to FY 2000</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>Performing Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>						
<u>Product Development Organizations</u>											
	Raytheon	Various	ongoing	TBD	TBD	1,169	2,952			0	4,121
	Lockheed Martin Skunkworks	Various	ongoing	TBD	TBD	1,217	6,166			0	7,383
	Northrup Grumman	Various	ongoing	TBD	TBD	226	2,737	935	548	Continuing	TBD
	Motorola	Various	ongoing	TBD	TBD	0	415			0	415
	Trex Enterprises	CPFF	9 Aug 96	TBD	TBD	1,785				0	1,785
	VEDA Inc	Various	ongoing	TBD	TBD	635				0	635
	Alphatech	Various	ongoing	TBD	TBD	1,639	680			0	2,319
	Def Syst Contr - Various	TBD	TBD	TBD	TBD	875		641		Continuing	TBD
	Other	Various	Various	TBD	TBD	904	400		175	Continuing	TBD
<u>Support and Management Organizations</u>											
	Other Gov't Orgs	Multiple	Multiple	TBD	TBD	1,019	665	530	368	Continuing	TBD
<u>Test and Evaluation Organizations</u>											

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)					DATE June 2001	
BUDGET ACTIVITY			PE NUMBER AND TITLE			PROJECT
<b>07 - Operational System Development</b>			<b>0305206F Airborne Reconnaissance Systems</b>			<b>4818</b>
	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Subtotals</u>	<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development	8,450	13,350	1,576	723	TBD	TBD
Subtotal Support and Management	1,019	665	530	368	TBD	TBD
Subtotal Test and Evaluation						
Total Project	9,469	14,015	2,106	1,091	TBD	TBD

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)									DATE June 2001	
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems					PROJECT 4819	
COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
4819 Common Data Link (CDL)	29,708	43,014	35,406	44,108	42,063	37,998	36,984	38,015	0	0
Note: FY03-FY07 budget numbers do not reflect DoD's strategic review results.										
(U) <b><u>A. Mission Description</u></b> 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. CDL concept & technology development and system development & demonstration efforts support continuous improvements and implementation of C2ISR capabilities to enable a joint global strike task force. 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. (Note: the term A-series refers to full rate/capability CDL systems and T-Series refers to TCDL systems)										
(U) <b><u>FY 2000 (\$ in Thousands)</u></b>										
(U) \$10,980	Continue engineering/ integration of commercial satellite communication network to support airborne reconnaissance platform relay requirements and studies and analysis of alternative satellite communications to support airborne reconnaissance relay requirements.									
(U) \$2,218	Continue development of Tactical CDL demonstration hardware and flight demonstration and continue to develop design for operational suitability on Intelligence, Surveillance & Reconnaissance (ISR) platforms including Predator.									
(U) \$5,351	Continue integration engineering of ABIT technology into ISR platforms including RC-135, JSTARS, U-2, and Global Hawk.									
(U) \$2,064	Continue to assess development of commercial network interface standards and incorporation of commercial technologies where practical to the CDL interface including Asynchronous Transfer Mode (ATM) on TCDL.									
(U) \$2,081	Continue configuration control of CDL architecture, standards, specifications, and modules.									
(U) \$710	Continue development of link modifications to incorporate and enhance wideband bulk encryption.									
(U) \$2,645	Continue development of CDL and TCDL interface to additional platforms including Airborne Reconnaissance Low (ARL), and Light Airborne Multi-Purpose System (LAMPS).									
(U) \$1,450	Continue SATCOM interoperability enhancements/Global Grid Development.									
Project 4819			Page 14 of 23 Pages				Exhibit R-2A (PE 0305206F)			

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE
		June 2001
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
<b>07 - Operational System Development</b>	<b>0305206F Airborne Reconnaissance Systems</b>	<b>4819</b>
(U) <b><u>A. Mission Description Continued</u></b>		
(U) <b><u>FY 2000 (\$ in Thousands) Continued</u></b>		
(U) \$2,209	Continue development of Dual Data link upgrade for U-2 and Global Hawk.	
(U) \$29,708	Total	
(U) <b><u>FY 2001 (\$ in Thousands)</u></b>		
(U) \$2,600	Continue engineering and integration of commercial satellite communication network to support airborne reconnaissance platform relay requirements and lease a commercial transponder in support of Global Hawk and studies/analysis of alternative satellite communications to support airborne reconnaissance relay requirements.	
(U) \$5,500	Continue development of Tactical CDL demonstration hardware and flight demonstration, and continue to develop design for operational suitability on ISR platforms including potential flight demonstrations on ARL, GUARDRAIL Legacy Replacement, P-3, EP-3, F/A-18 SHARP, VTUAV and Light Airborne Multi-Purpose System (LAMPS) and ATM interface upgrade.	
(U) \$6,131	Continue ABIT technology integration engineering of ABIT in ISR platforms including RC-135 and Global Hawk.	
(U) \$6,163	Continue configuration control of CDL architecture, standards, specifications, and modules.	
(U) \$4,570	Continue SATCOM interoperability enhancements/Global Grid development.	
(U) \$3,050	Continue development of CDL interface to additional platform and surface terminal equipment (eg JSTARS, TARS, CHBDL) and advanced technology insertion activities, and CDL certification test equipment development.	
(U) \$4,000	Continue development of DDL-2.	
(U) \$4,000	Complete High Rate Laser Communications development. This funding is an FY01 Congressional Add. This effort was previously in the Imaging and Targeting Support program (PE 0305206F, BPAC 674818).	
(U) \$3,500	Begin development of NCCT wideband integrated common data link. This funding is an FY01 Congressional Add. Follow-on funding will be provided from multiple PEs/BPACs.	
(U) \$3,500	Fund development of wideband integrated common data link for application with NCCT. This funding is an FY01 Congressional Add.	
(U) \$43,014	Total	
(U) <b><u>FY 2002 (\$ in Thousands)</u></b>		
(U) \$2,800	Continue engineering/integration of commercial satellite communication network to support airborne reconnaissance platform relay requirements and lease a commercial transponder in support of Global Hawk and studies and analysis of alternative satellite communications to support airborne reconnaissance relay requirements.	
(U) \$5,400	Continue evolutionary development of TCDL (T-Series) for operational suitability on ISR platforms such as Guardrail Legacy Replacement, P-3, EP-3, F-16 TARS, F/A-18 SHARP, TUAV, and VTUAV.	
Project 4819	Page 15 of 23 Pages	Exhibit R-2A (PE 0305206F)

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE June 2001			
BUDGET ACTIVITY <b>07 - Operational System Development</b>				PE NUMBER AND TITLE <b>0305206F Airborne Reconnaissance Systems</b>			PROJECT <b>4819</b>			
<b>(U) A. Mission Description Continued</b>										
<b>(U) FY 2002 (\$ in Thousands) Continued</b>										
(U)	\$5,900	Continue ABIT(A-Series) technology integration into Global Hawk and other ISR platforms and continue limited ABIT system cost reduction initiatives.								
(U)	\$8,569	Continue configuration control of CDL architecture, standards, specification, and modules; provide for Joint-Service interoperability certification and spectrum management.								
(U)	\$500	Continue development of KGV-135 replacement, initiate CDL migration to DoD network-based encryption architecture. This is continuing work effort that was identified in FY01 as development of link modifications to incorporate wide band encryption.								
(U)	\$1,035	Continue development of interface to additional platform and surface terminal equipment (e.g. JSTARS, TARS, CHBDL), advanced technology insertion activities, and CDL certification test equipment development.								
(U)	\$9,000	Start MP-CDL (A-Series) development of wideband integrated common data link to support MP-RTIP and NCCT. This is not a new start, but a continuation of an FY01 \$7M congressional plusup for wideband integrated CDL. These funds were added per the FY02 PDM.								
(U)	\$1,995	Continue SATCOM interoperability enhancements/Global Grid development.								
(U)	\$100	Continue development of DDL-2 (A-Series).								
(U)	\$107	Continue NCCT wideband integrated common data link development								
(U)	\$0	Completed High Rate Laser Communications development								
(U)	\$35,406	Total								
<b>(U) B. Project Change Summary</b>										
FY01 Congressional Add: \$4M High Data Rate Communications; \$7M Wideband Integrated CDL development										
FY02 funding of \$9M added for MP- RTIP CDL development										
<b>(U) C. Other Program Funding Summary (\$ in Thousands)</b>										
	<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>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U)	None									

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**RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)**

DATE  
**June 2001**

<b>BUDGET ACTIVITY</b> <b>07 - Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0305206F Airborne Reconnaissance Systems</b>	<b>PROJECT</b> <b>4819</b>
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**(U) D. Acquisition Strategy**

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

**(U) E. Schedule Profile**

	<u>FY 2000</u>				<u>FY 2001</u>				<u>FY 2002</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Continue Commercial Satellite Transponder Lease			*				*		X			
(U) Phase 2a Tactical CDL Dev Program Complete on Predator												X
(U) Proof of Installation Concept of TCDL on ARL			*									
(U) Complete Phase 2 TCDL			*									
(U) Initiate TCDL environmental hardening		*										
(U) Complete TCDL environmental hardening									X			
(U) Initiate TCDL CDL-compliant MDR/HDR upgrade						*						
(U) Complete ABIT RC-135 Design	*											
(U) Initial RC-135 ABIT unit delivery		*										
(U) Initiate/Complete ABIT RC-135 Flight Tests			*		*							
(U) Complete ABIT Global Hawk Collector Development												X
(U) Initiate ABIT Cost Reduction P3I				*								
(U) U-2 DDL (U-2 Flight Test)												X
(U) Initiate KGV-135 replacement development									X			
(U) Complete KGV-135 replacement design validation												X
(U) Release MP-CDL RFP									X			
(U) MP-CDL Contract Awards										X		

\*-Denotes completed event  
X-Denotes planned event

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE June 2001			
BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems			PROJECT 4819		
(U) <b><u>A. Project Cost Breakdown (\$ in Thousands)</u></b>										
						<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>
(U)	Hardware and Software Development					13,409		30,214		22,037
(U)	Systems Engineering					1,978		2,100		2,000
(U)	Satellite Communications					10,980		2,600		2,800
(U)	Configuration Management					290		2,080		3,405
(U)	Contractor Engineering Support					681		1,098		1,031
(U)	Government Management and Support					2,370		4,922		4,133
(U)	Total					29,708		43,014		35,406
(U) <b><u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u></b>										
(U) <b><u>Performing Organizations:</u></b>										
<u>Contractor or Government Performing Activity</u>	<u>Contract Method/Type or Funding Vehicle</u>	<u>Award or Obligation Date</u>	<u>Performing Activity EAC</u>	<u>Project Office EAC</u>	<u>Total Prior to FY 2000</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Product Development Organizations</u>										
L3Com	Multiple	Multiple			0	10,204	17,031	15,807	Continuing	TBD
California Microwave	CPFF	Mar 99	TBD	TBD	0	1,572			Continuing	TBD
Harris Corp	Other	23 Jul 97	TBD	TBD	0	1,043	5,330	5,300	Continuing	TBD
	Transaction									
Trex Corp	CPIF		TBD	TBD	0	0	2,900	0		2,900
Classified Contractor					0	1,450	3,570	1,980		7,000
Motorola	Multiple	Multiple	TBD	TBD	0	989	0	500	Continuing	TBD
Other	Multiple	Multiple			0	1,266	6,097	3,962	Continuing	TBD
<u>Support and Management Organizations</u>										
SATCOM	FFP	17 Jul 95			8,045	10,980	2,400	2,600	Continuing	TBD
Various	Multiple	Multiple			603	2,064	5,256	4,827	Continuing	TBD
<u>Test and Evaluation Organizations</u>										
JITC	MIPR	FY99			530	140	430	430	Continuing	TBD

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<b>RDT&amp;E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)</b>					DATE <b>June 2001</b>	
BUDGET ACTIVITY			PE NUMBER AND TITLE			PROJECT
<b>07 - Operational System Development</b>			<b>0305206F Airborne Reconnaissance Systems</b>			<b>4819</b>
		<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
<u>Subtotals</u>		<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>
Subtotal Product Development		0	16,524	34,928	27,549	TBD
Subtotal Support and Management		8,648	13,044	7,656	7,427	TBD
Subtotal Test and Evaluation		530	140	430	430	TBD
Total Project		9,178	29,708	43,014	35,406	TBD
						<u>Total</u>
						<u>Program</u>

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<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>									DATE <b>June 2001</b>		
BUDGET ACTIVITY <b>07 - Operational System Development</b>					PE NUMBER AND TITLE <b>0305206F Airborne Reconnaissance Systems</b>					PROJECT <b>4882</b>	
COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost	
4882    Compass Bright	0	4,822	4,888	4,894	5,079	5,268	5,378	5,492	Continuing	TBD	
<p>FY03-FY07 budget numbers do not reflect DoD's strategic review results.</p> <p>(U) <b><u>A. Mission Description</u></b>                      The COMPASS BRIGHT program develops advanced Air Force specific SIGINT capabilities to ensure that time-sensitive SIGINT collections against emerging and future target signals occur and reach the battle execution management centers fast enough to be of immediate value in the conduct of military operations.</p> <p>Note: Funding in FY99 and FY00 are in National Security Agency PE 0305206G. FY01-07 funding was transferred to Air Force (PE 0305206F) from PE 0305206G.</p> <p>(U) <b><u>FY 2000 (\$ in Thousands)</u></b>                      (U) \$0                      No Activity                      (U) \$0                      Total</p> <p>(U) <b><u>FY 2001 (\$ in Thousands)</u></b>                      (U) \$4,492                Continue COMPASS BRIGHT (NexGen Receiver, Active Interference Cancellation, Advanced SIGINT modernization and other projects) development projects                      (U) \$330                    SPO operations, Program Management Activities                      (U) \$4,822                Total</p> <p>(U) <b><u>FY 2002 (\$ in Thousands)</u></b>                      (U) \$4,518                Continue COMPASS BRIGHT (Advanced Signal ID, Advanced Satellite Comm, PCS, Advanced SIGINT Modernization and other projects) development projects                      (U) \$370                    SPO operations, program management activities                      (U) \$4,888                Total</p> <p>(U) <b><u>B. Project Change Summary</u></b></p>											
Project 4882			Page 20 of 23 Pages				Exhibit R-2A (PE 0305206F)				

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE				
							June 2001				
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT			
07 - Operational System Development				0305206F Airborne Reconnaissance Systems				4882			
<b>(U) C. Other Program Funding Summary (\$ in Thousands)</b>											
	<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>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>	
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>		
(U)	AF RDT&E										
(U)	Other APPN										
<b>(U) D. Acquisition Strategy</b>											
The COMPASS BRIGHT program objective is to develop technologies for application in SIGINT systems/subsystems. Acquisition and production of these developed technologies will occur within the appropriate platform programs. On-going COMPASS BRIGHT technology development and demonstration contracts will continue through existing laboratory relationships and other existing contractual vehicles. The acquisition approach for future development projects will emphasize full and open competition.											
<b>(U) E. Schedule Profile</b>											
				<u>FY 2000</u>			<u>FY 2001</u>		<u>FY 2002</u>		
				1	2	3	4	1	2	3	4
(U)	NextGen Receiver										
(U)	-Digital Receiver Dev Complete										
(U)	-Receiver Delivery										
(U)	AIC Complete Prototype Testing										
(U)	Advanced Satellite Comm Project										
(U)	Advanced Signal ID Project										
(U)	PCS Project										
(U)	AFS IMU I&T Project										
(U)	Wideband Signal ID Project										
(U)	Advanced Development Comm Exploitation										
(U)	Classified Projects										

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE June 2001				
BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems			PROJECT 4882			
(U) <b>A. Project Cost Breakdown (\$ in Thousands)</b>											
						<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>	
(U)	COMPASS BRIGHT projects					0		4,492		4,518	
(U)	SPO Operations/Program Management Activities					0		330		370	
(U)	Total					0		4,822		4,888	
(U) <b>B. Budget Acquisition History and Planning Information (\$ in Thousands)</b>											
(U) <b>Performing Organizations:</b>											
	<u>Contractor or Government</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Performing Activity</u>	<u>Project Office</u>	<u>Total Prior to FY 2000</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>						
	<u>Product Development Organizations</u>										
	Various	Various	Various	TBD	TBD	0	0	4,492	4,518	Continuing	TBD
	<u>Support and Management Organizations</u>										
	Various	Various	Various	TBD	TBD	0	0	330	370	Continuing	TBD
	<u>Test and Evaluation Organizations</u>										
	None										
(U) <b>Government Furnished Property:</b>											
	<u>Item</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Delivery</u>		<u>Total Prior to FY 2000</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>							
	<u>Product Development Property</u>										
	Subtotal					0					0
	<u>Support and Management Property</u>										
	Subtotal					0					0
	<u>Test and Evaluation Property</u>										
	None					0					0

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)					DATE June 2001	
BUDGET ACTIVITY		PE NUMBER AND TITLE			PROJECT	
<b>07 - Operational System Development</b>		<b>0305206F Airborne Reconnaissance Systems</b>			<b>4882</b>	
		<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
		<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>
						<u>Program</u>
<u>Subtotals</u>						
Subtotal Product Development		0	0	4,492	4,518	TBD
Subtotal Support and Management		0	0	330	370	TBD
Subtotal Test and Evaluation		0				0
Total Project		0	0	4,822	4,888	TBD