

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2002	
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems					
COST (\$ in Thousands)	FY 2001 Actual	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	127,573	57,208	66,810	75,866	68,138	67,645	69,175	Continuing	TBD
4817 Joint SIGINT Avionics Family (JSAF)	80,774	0	0	0	0	0	0	Continuing	TBD
4818 Imaging and Targeting Support	2,104	11,479	15,775	24,374	21,603	25,068	26,549	Continuing	TBD
4819 Common Data Link (CDL)	40,169	45,462	43,664	41,474	37,346	36,265	37,203	Continuing	TBD
4882 Compass Bright	4,526	267	4,882	5,048	5,223	5,322	5,423	Continuing	TBD
5038 Network Centric Collaborative Targeting	0	0	2,489	4,970	3,966	990	0	0	12,500
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0

FY02 Appropriations Act added \$10.5M for TARS sensor and datalink development, 7.0M for Wideband Integrated CDL and \$3.5M for Laser communications. FY02 Appropriations act removed \$41.0M from JSAF and provided \$16M to PE 0305205F for JSAF HBSS demonstration. This reduction exceeded the FY02 President's budget request for JSAF funding, so additional reduction was allocated to COMPASS BRIGHT. As a result of Congressional action in FY02, the Department moved outyear JSAF funding to PE 0305205F Global Hawk.

(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.

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BUDGET ACTIVITY 07 - Operational System Development		PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems			
(U) <u>B. Budget Activity Justification</u> This program is categorized as Budget Activity 7 because it provides for development of technologies and capabilities in support of operational system development.					
(U) <u>C. Program Change Summary (\$ in Thousands)</u>					
		<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>
(U)	Previous President's Budget	136,913	77,766	129,888	TBD
(U)	Appropriated Value	157,913	77,766		
(U)	Adjustments to Appropriated Value				
	a. Congressional/General Reductions		-20,558		
	b. Small Business Innovative Research				
	c. Omnibus or Other Above Threshold Reprogram	-25,750			
	d. Below Threshold Reprogram	-3,141			
	e. Rescissions	-1,449			
(U)	Adjustments to Budget Years Since FY 2002 PBR			-63,078	
(U)	Current Budget Submit/FY 2003 PBR	127,573	57,208	66,810	TBD
(U) <u>Significant Program Changes:</u> Line c. Omnibus includes -13,450 that Congress rejected as an omnibus source, but has not been reflected in AF financial databases.					

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)	DATE February 2002
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BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems	PROJECT 4817
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COST (\$ in Thousands)	FY 2001 Actual	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)	80,774	0	0	0	0	0	0	Continuing	TBD

The funding for the Joint SIGINT Avionics Family (JSAF) High Band Subsystem (HBSS) was not included in the Fiscal Year 2002 Appropriation Conference Report.

The Air Force issued a stop work to the HBSS contractor in response to the Conference language. Professional staff members from the appropriations committees have confirmed that it was Congressional intent to terminate the JSAF Low Band Subsystem (LBSS) program but not the HBSS program. However, in the final Appropriations Conference report, HBSS funding was deleted from the JSAF line and was not fully replaced in any aircraft line.

(U) A. Mission Description

JSAF was designed to provide for the development of sensor systems to modernize the DOD airborne SIGINT fleet for collection against the 2010 threat.

(U) FY 2001 (\$ in Thousands)

- (U)** \$45,100 Terminate Low Band Subsystem (LBSS) development and integration
- (U)** \$18,463 Continue High Band Subsystem (HBSS) development and integration
- (U)** \$6,600 Continue EP-3 platform development for JSAF integration and testing
- (U)** \$3,500 Continue ACS platform development for JSAF integration and testing
- (U)** \$1,441 Continue Rivet Joint platform development
- (U)** \$5,670 Continue SPO Operations, Systems Engineering, Program Management Activities
- (U)** \$80,774 Total

(U) FY 2002 (\$ in Thousands)

- (U)** \$0 No Activity
- (U)** \$0 Total

(U) FY 2003 (\$ in Thousands)

- (U)** \$0 No Activity
- (U)** \$0 Total

(U) B. Project Change Summary

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE February 2002			
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems			PROJECT 4817			
(U) C. Other Program Funding Summary (\$ in Thousands)										
	<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>Complete</u>		
(U) None										
(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.										
(U) E. Schedule Profile										
			<u>FY 2001</u>			<u>FY 2002</u>		<u>FY 2003</u>		
			1	2	3	4	1	2	3	4
(U) HBSS FAT					*					
(U) LBSS contract termination							*			
* - Denotes completed event										
X- Denotes planned event										
Project 4817			Page 4 of 26 Pages			Exhibit R-2A (PE 0305206F)				

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)		DATE						
07 - Operational System Development		0305206F Airborne Reconnaissance Systems			February 2002 4817			
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT						
			<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
			<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>
Subtotals								
Subtotal Product Development			200,325	75,104	0	0	0	275,429
Subtotal Support and Management			19,181	5,670	0	0	0	24,851
Subtotal Test and Evaluation				0	0	0	0	0
Total Project			219,506	80,774	0	0	0	300,280
JSAF funding was zeroed by Congress in FY02.								

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)	DATE February 2002
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BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems	PROJECT 4818
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COST (\$ in Thousands)	FY 2001 Actual	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	2,104	11,479	15,775	24,374	21,603	25,068	26,549	Continuing	TBD

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 Systems transferred to PE 0305202F beginning in FY01. In FY02 Congressional add of \$10.388M was misdirected into this PE. FY 02 should be \$1091, due to FY02 PB mistake. AF is working a reprogramming action to place this money into correct PE 27217F.

(U) A. Mission Description

The purpose of the Imaging and Targeting Support (ITS) program is to develop next generation, common imagery reconnaissance sensors (e.g., radar and electro-optical systems) for multiple airborne platforms and sensor products to aid in rapid targeting (e.g., geolocation models, sensor-based exploitation tools, sensor networking capabilities). 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, automated target detection, and other ISR technologies to reduce both target search and kill chain timelines; as well as, supporting traditional intelligence activities. ITS will increase interoperability amongst developed systems by developing common standards and tools. ITS focuses on the following thrust areas:

Common IMINT Sensor Development: Development of common radar and electro-optical sensors (e.g., Synthetic Aperture Radar (SAR), Electro Optical (EO), and Infrared (IR)) and their operational modes (e.g., High Resolution Imagery, Moving Target Indication , Spectral Identification) for multiple airborne platforms.

Sensor Processing and Networking: Development of advanced airborne tactical sensor processing algorithms and tools (e.g., automatic registration, automatic target detection/recognition). These efforts focus on reducing the find, fix and track elements of the time critical targeting kill chain as well as operator and decision-maker workloads through sensor processing techniques.

IMINT Systems Engineering: Development of open architecture for tactical sensor models used to improve geolocation accuracies required for precision targeting. Development and implementation of imagery standards (e.g., Common GMTI, NITF for HSI). Monitor and enhance IMINT product quality (e.g., radar and EO/IR imagery, GMTI data, and spectral information) and timeliness throughout the image chain (i.e. from sensor to user).

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BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
07 - Operational System Development	0305206F Airborne Reconnaissance Systems	4818
(U) <u>A. Mission Description Continued</u>		
(U) <u>FY 2001 (\$ in Thousands)</u>		
(U) \$1,248	Sensor Processing and Networking: Continue Airborne Targeting and Cross-Cueing risk reduction efforts - analysis of airborne processing, communication links, and ground processing components and interfaces.	
(U) \$722	IMINT Systems Engineering: Continue evaluation of geolocation sensor models supporting target exploitation tools. Continue development of enhanced geolocation capabilities.	
(U) \$134	SPO Support	
(U) \$2,104	Total	
(U) <u>FY 2002 (\$ in Thousands)</u>		
(U) \$50	Common IMINT Sensor Development: Initiate efforts to transition HSI technology and hardware into airborne reconnaissance platforms.	
(U) \$50	Sensor Processing and Networking: Complete Airborne Targeting and Cross-Cueing risk reduction efforts and transfer results and products to the ISR Manager program. Study/demonstrate auto-registration/MASINT tracker technologies.	
(U) \$887	IMINT Systems Engineering: Initiate efforts to build an open architecture for tactical sensor models used to improve geolocation accuracies required for precision targeting. Initiate image quality assessment program.	
(U) \$10,388	Congressional add for Theater Airborne Reconnaissance System.*	
(U) \$104	SPO Support	
(U) \$11,479	Total	
*Air Force is working a reprogramming action to to submit to OSD to reflect this in proper PE (27217F)		
(U) <u>FY 2003 (\$ in Thousands)</u>		
(U) \$5,047	Common IMINT Sensor Development: Continue efforts to transition HSI technology and hardware into airborne reconnaissance platforms.	
(U) \$6,300	Sensor Processing and Networking: Continue to develop near real time image processing capabilities for automated geolocation and automated target detection for future integration on U2 and Global Hawk sensors.	
(U) \$3,700	IMINT Systems Engineering: Deliver initial tactical sensor models (e.g., U2, Global Hawk, Predator). Establish baseline image quality measures and timelines associated with U2 and Global Hawk sensors.	
(U) \$728	SPO Support	
(U) \$15,775	Total	
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<p>(U) <u>B. Project Change Summary</u> Network Centric Collaborative Targeting (NCCT) has been realigned under BPAC 675038. This results in a \$12.5M reduction to BPAC 674818 between FY 03-06.</p> <p>Airborne Targeting and Cross-Cueing System (ATACCS) risk reduction efforts will conclude in FY02. The products of this effort will support the ISR Manager and NCCT programs. ATACCS will not proceed to a System Development & Demonstration phase.</p>																																																																																																																																																																										
<p>(U) <u>C. Other Program Funding Summary (\$ in Thousands)</u></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th align="center"><u>FY 2001</u></th> <th align="center"><u>FY 2002</u></th> <th align="center"><u>FY 2003</u></th> <th align="center"><u>FY 2004</u></th> <th align="center"><u>FY 2005</u></th> <th align="center"><u>FY 2006</u></th> <th align="center"><u>FY 2007</u></th> <th align="center"><u>Cost to</u></th> <th align="center"><u>Total Cost</u></th> </tr> <tr> <th></th> <th align="center"><u>Actual</u></th> <th align="center"><u>Estimate</u></th> <th align="center"><u>Estimate</u></th> <th align="center"><u>Estimate</u></th> <th align="center"><u>Estimate</u></th> <th align="center"><u>Estimate</u></th> <th align="center"><u>Estimate</u></th> <th align="center"><u>Complete</u></th> <th></th> </tr> </thead> <tbody> <tr> <td>(U) AF RDT & E</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) Other APPN</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>																<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>Complete</u>		(U) AF RDT & E										(U) Other APPN																																																																																																																													
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<p>(U) <u>D. Acquisition Strategy</u> 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.</p>																																																																																																																																																																										
<p>(U) <u>E. Schedule Profile</u></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th align="center" colspan="4"><u>FY 2001</u></th> <th align="center" colspan="4"><u>FY 2002</u></th> <th align="center" colspan="4"><u>FY 2003</u></th> </tr> <tr> <th></th> <th align="center">1</th> <th align="center">2</th> <th align="center">3</th> <th align="center">4</th> <th align="center">1</th> <th align="center">2</th> <th align="center">3</th> <th align="center">4</th> <th align="center">1</th> <th align="center">2</th> <th align="center">3</th> <th align="center">4</th> </tr> </thead> <tbody> <tr> <td>(U) Common IMINT Sensor Development</td> <td></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) - SPIRITT Contract option exercised, CDR</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td align="center">X</td><td></td><td align="center">X</td><td></td> </tr> <tr> <td>(U) Sensor Processing and Networking</td> <td></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) - Multi-Platform Target Exploitation Demo, Final Report</td> <td></td><td></td><td align="center">*</td><td></td><td></td><td align="center">X</td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) - ATACCS Risk Reduction Demos, Contract Comp</td> <td></td><td></td><td align="center">*</td><td></td><td align="center">*</td><td></td><td align="center">X</td><td align="center">X</td><td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) - Smart Image Processing RFP, Contract Awd</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td align="center">X</td><td></td><td align="center">X</td><td></td><td></td> </tr> <tr> <td>(U) IMINT Systems Engineering</td> <td></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) - Tactical Sensor Model TRD Contract Awd, Delivery</td> <td></td><td></td><td></td><td></td><td></td><td align="center">X</td><td align="center">X</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>(U) - Tactical Sensor Model API Contract Awd, Delivery</td> <td></td><td></td><td></td><td></td><td></td><td></td><td align="center">X</td><td></td><td></td><td align="center">X</td><td></td><td></td> </tr> <tr> <td>(U) - Tactical Sensor Model Deliveries</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td align="center">X</td><td></td><td align="center">X</td> </tr> </tbody> </table>																<u>FY 2001</u>				<u>FY 2002</u>				<u>FY 2003</u>					1	2	3	4	1	2	3	4	1	2	3	4	(U) Common IMINT Sensor Development													(U) - SPIRITT Contract option exercised, CDR									X		X		(U) Sensor Processing and Networking													(U) - Multi-Platform Target Exploitation Demo, Final Report			*			X							(U) - ATACCS Risk Reduction Demos, Contract Comp			*		*		X	X					(U) - Smart Image Processing RFP, Contract Awd								X		X			(U) IMINT Systems Engineering													(U) - Tactical Sensor Model TRD Contract Awd, Delivery						X	X						(U) - Tactical Sensor Model API Contract Awd, Delivery							X			X			(U) - Tactical Sensor Model Deliveries										X		X
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2002				
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT			
07 - Operational System Development				0305206F Airborne Reconnaissance Systems				4818			
(U) A. Project Cost Breakdown (\$ in Thousands)											
						<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>	
(U)	Hardware and Software Development					1,248		687		8,729	
(U)	Systems Engineering					595		150		3,409	
(U)	Contractor Engineering Support					84		50		2,909	
(U)	Government Engineering Support					50		204		728	
(U)	TARS Reprogramming to PE 27217F					0		10,388		0	
(U)	Total					1,977		11,479		15,775	
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)											
(U) Performing Organizations:											
	<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 2001</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget FY 2003</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	2,441				0	2,441
	Lockheed Martin	Various	ongoing	TBD	TBD	1,280				0	1,280
	Veridan					85		843	1,000		1,928
	Northrup Grumman	Various	ongoing	TBD	TBD	1,042	1,211		1,535	Continuing	TBD
	BAE	Various	ongoing	TBD	TBD	0			3,500	Continuing	TBD
	Alphatech	Various	ongoing	TBD	TBD	1,639				0	1,639
	Def Syst Contr - Various	TBD	TBD	TBD	TBD	2,892	183		9,012	Continuing	TBD
	Other	Various	Various	TBD	TBD	979	313			Continuing	TBD
	TARS reprogramming to PE 27217F							10,388			10,388
<u>Support and Management Organizations</u>											
	Other Gov't Orgs	Multiple	Multiple	TBD	TBD	1,387	270	248	728	Continuing	TBD

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BUDGET ACTIVITY							PROJECT			
07 - Operational System Development							0305206F Airborne Reconnaissance Systems			
							4818			
(U) <u>Performing Organizations Continued:</u>										
<u>Test and Evaluation Organizations</u>										
Range Support	Various	Multiple	TBD	TBD	638			Continuing	TBD	
					<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	
					<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	
<u>Subtotals</u>									<u>Total</u>	
Subtotal Product Development					10,358	1,707	11,231	15,047	TBD	TBD
Subtotal Support and Management					1,387	270	248	728	TBD	TBD
Subtotal Test and Evaluation					638				TBD	TBD
Total Project					12,383	1,977	11,479	15,775	TBD	TBD

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BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems	PROJECT 4819
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COST (\$ in Thousands)	FY 2001 Actual	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)	40,169	45,462	43,664	41,474	37,346	36,265	37,203	Continuing	TBD

(U) **A. Mission Description**
 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 and other 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 and technology development and system development and 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) **FY 2001 (\$ in Thousands)**

(U) \$2,357 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) \$5,621 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, Light Airborne Multi-Purpose System (LAMPS), and ATM interface upgrade.

(U) \$5,855 Continue ABIT technology integration engineering of ABIT in ISR platforms including RC-135 and Global Hawk.

(U) \$3,785 Continue configuration control of CDL architecture, standards, specifications, and modules.

(U) \$4,948 Continue SATCOM interoperability enhancements/Global Grid development.

(U) \$3,180 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.

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE February 2002
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
07 - Operational System Development	0305206F Airborne Reconnaissance Systems	4819
(U) <u>A. Mission Description Continued</u>		
(U) <u>FY 2001 (\$ in Thousands) Continued</u>		
(U) \$3,423	Continue development of DDL-2.	
(U) \$4,000	Continue High Rate Laser Communications development (Phase I). 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) \$40,169	Total	
(U) <u>FY 2002 (\$ in Thousands)</u>		
(U) \$2,600	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) \$5,810	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.	
(U) \$4,930	Continue ABIT (A-Series) technology integration into CDL systems for application to ISR platforms and continue limited ABIT system cost reduction initiatives.	
(U) \$8,177	Continue configuration control of CDL architecture, standards, specification, and modules; provide for Joint-Service interoperability certification and spectrum management.	
(U) \$500	Start development of KGV-135 replacement, initiate CDL migration to DoD network-based encryption architecture.	
(U) \$1,365	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. These funds were added per the FY00 IPDM.	
(U) \$2,580	Complete SATCOM interoperability enhancements/Global Grid development.	
(U) \$7,000	Continue NCCT wideband integrated common data link development This is an FY02 Congressional Plus-up.	
(U) \$3,500	Continue High Rate Laser Communications development (Phase II). This is an FY02 Congressional Plus-up.	
(U) \$45,462	Total	
Project 4819	Page 14 of 26 Pages	Exhibit R-2A (PE 0305206F)

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE February 2002		
BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT		
07 - Operational System Development				0305206F Airborne Reconnaissance Systems			4819		
(U) <u>A. Mission Description Continued</u>									
(U) <u>FY 2003 (\$ in Thousands)</u>									
(U)	\$2,900	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)	\$6,730	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.							
(U)	\$5,000	Continue ABIT(A-Series) technology integration into CDL systems for application to ISR platforms and continue limited ABIT system cost reduction initiatives.							
(U)	\$11,101	Continue configuration control of CDL architecture, standards, specification, and modules; provide for Joint-Service interoperability certification and spectrum management.							
(U)	\$1,000	Continue development of KGV-135 replacement, initiate CDL migration to DoD network-based encryption architecture.							
(U)	\$5,933	Continue development of interface to additional platform and surface terminal equipment (e.g. JSTARS, TARS, CHBDL), advanced technology insertion activities (to include studies and analysis of future data link reqts and architectures), and CDL certification test equipment development.							
(U)	\$10,000	Continue MP-CDL (A-Series) development of wideband integrated common data link to support MP-RTIP and NCCT.							
(U)	\$1,000	Continue NCCT wideband integrated common data link development							
(U)	\$43,664	Total							
(U) <u>B. Project Change Summary</u>									
FY02 \$7.0M Congressional Plus-up for Wideband Integrated Common Data Link and a \$3.5M Congressional Plus-up to continue development of High Rate Laser Communications.									
DDL-II development funding was transferred to PE 35202F in FY02.									
(U) <u>C. Other Program Funding Summary (\$ in Thousands)</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>Complete</u>	
(U)	None								
Project 4819			Page 15 of 26 Pages			Exhibit R-2A (PE 0305206F)			

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)										DATE February 2002		
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT		
07 - Operational System Development					0305206F Airborne Reconnaissance Systems					4819		
(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. Funds are provided to various government laboratories and program offices to support new and on-going development 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 2001</u>				<u>FY 2002</u>				<u>FY 2003</u>		
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Continue Commercial Satellite Transponder Lease			*			X				X		
(U) Proof of Installation Concept of TCDL on ARL			*									
(U) Complete TCDL environmental hardening					X							
(U) TCDL GPS Backup Start						X						
(U) TCDL GPS Backup Demo												X
(U) TCDL for Army TUAV Demo												X
(U) Final ABIT RC-135 development unit delivery	*											
(U) Initiate/Complete ABIT RC-135 Flight Tests	*											
(U) Initiate ABIT Cost Reduction P3I			*									
(U) Start ABIT P3I Lab Testing							X					
(U) Complete ABIT P3I Testing								X				
(U) Complete ABIT P3I Development									X			
(U) Release MP-CDL RFP						X						
(U) MP-CDL Contract Awards								X				
(U) MP-CDL CDR												X
(U) DDL-II CDR			*									
(U) DDL-II Flight Test Integration Contract Award				*								
(U) Initiate KGV-135 replacement development						X						
(U) Complete KGV-135 replacement design validation/demonstration												X
(U) Begin TIGDL-II Prototype Build					X							
(U) TIGDL-II Demonstration											X	
Project 4819					Page 16 of 26 Pages					Exhibit R-2A (PE 0305206F)		

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)	DATE February 2002
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BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems	PROJECT 4819
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(U) **E. Schedule Profile Continued**

	<u>FY 2001</u>				<u>FY 2002</u>				<u>FY 2003</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
*-Denotes completed event												
X-Denotes planned event												

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2002			
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT		
07 - Operational System Development				0305206F Airborne Reconnaissance Systems				4819		
(U) <u>A. Project Cost Breakdown (\$ in Thousands)</u>										
						<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>
(U)	Hardware and Software Development					29,728		32,921		28,663
(U)	Systems Engineering					2,275		2,000		830
(U)	Satellite Communications					2,124		2,600		2,900
(U)	Configuration Management					3,048		2,480		3,884
(U)	Contractor Engineering Support					721		544		1,128
(U)	Government Management and Support					2,273		4,917		6,259
(U)	Total					40,169		45,462		43,664
(U) <u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u>										
(U) <u>Performing Organizations:</u>										
	<u>Contractor or</u>	<u>Contract</u>								
	<u>Government</u>	<u>Method/Type</u>	<u>Award or</u>	<u>Performing</u>	<u>Project</u>					
	<u>Performing</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Activity</u>	<u>Office</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
	<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>
	<u>Product Development Organizations</u>									
	L-3 Communications	Multiple	Multiple			5,499	10,800	5,930	5,415	Continuing
	Harris Corp	Other	23 Jul 97	TBD	TBD	0	5,028	1,690	415	Continuing
		Transaction								
	Trex Corp	CPIF		TBD	TBD	0	2,900	3,500	0	
	SATCOM Interop/Global					1,450	4,948	2,580	0	Continuing
	Grid/Other Govt Orgs									
	MP-CDL Contractor	TBD	Jun 02	TBD	TBD	0	0	9,000	10,000	Continuing
	COMCEPT	Multiple	Jun 01	TBD	TBD	0	6,243	7,000	1,000	Continuing
	Other	Multiple	Multiple			0	3,576	8,912	18,176	Continuing
	<u>Support and Management Organizations</u>									
	SATCOM	FFP	17 Jul 95			8,045	2,357	2,600	2,900	Continuing
	Various	Multiple	Multiple			2,745	3,887	3,820	4,758	Continuing
Project 4819				Page 18 of 26 Pages				Exhibit R-3 (PE 0305206F)		

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)						DATE February 2002	
BUDGET ACTIVITY			PE NUMBER AND TITLE			PROJECT	
07 - Operational System Development			0305206F Airborne Reconnaissance Systems			4819	
(U) <u>Performing Organizations Continued:</u>							
<u>Test and Evaluation Organizations</u>							
JITC	MIPR	FY99	530	430	430	1,000	Continuing TBD
			<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
			<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>
<u>Subtotals</u>							<u>Total</u>
Subtotal Product Development			6,949	33,495	38,612	35,006	TBD TBD
Subtotal Support and Management			10,790	6,244	6,420	7,658	TBD TBD
Subtotal Test and Evaluation			530	430	430	1,000	TBD TBD
Total Project			18,269	40,169	45,462	43,664	TBD TBD

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE February 2002			
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems				PROJECT 4882			
COST (\$ in Thousands)		FY 2001 Actual	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	4,526	267	4,882	5,048	5,223	5,322	5,423	Continuing	TBD	
FY02 funding was decreased to cover Congressional reductions to the Program Element.											
(U) A. Mission Description											
The COMPASS BRIGHT program develops, demonstrates, and rapidly transitions advanced Air Force-specific SIGINT and RF MASINT capabilities against emerging and future target signals.											
(U) FY 2001 (\$ in Thousands)											
(U)	\$4,196	Continue COMPASS BRIGHT development projects (i.e., NexGen Receiver, Active Interference Cancellation, Advanced SIGINT modernization and other projects) development projects									
(U)	\$330	SPO operations, Program Management Activities									
(U)	\$4,526	Total									
(U) FY 2002 (\$ in Thousands)											
(U)	\$267	SPO operations, Program Management Activities									
(U)	\$267	Total									
(U) FY 2003 (\$ in Thousands)											
(U)	\$4,447	Continue COMPASS BRIGHT development projects in the SIGINT, RF MASINT and Unintended Radiated Emissions (URE) areas									
(U)	\$435	SPO operations, Program Management Activities									
(U)	\$4,882	Total									
(U) B. Project Change Summary											
(U) C. Other Program Funding Summary (\$ in Thousands)											
		<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>Complete</u>		
(U)	AF RDT&E										
(U)	Other APPN										
Project 4882										Page 20 of 26 Pages	Exhibit R-2A (PE 0305206F)

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)	DATE February 2002
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BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems	PROJECT 4882
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(U) D. Acquisition Strategy

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.

(U) E. Schedule Profile

	<u>FY 2001</u>				<u>FY 2002</u>				<u>FY 2003</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Active Interference Cancellation Prototype Testing						X						
(U) FY02 Project Proposal Call		X										
(U) FY02 Proposals Evaluated and Approved			X									
(U) FY02 Projects Authorized to Proceed					X							
(U) FY03 Project Proposal Call						X						
(U) FY03 Proposals Evaluated and Approved							X					
(U) FY03 Projects Authorized to Proceed									X			

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2002				
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT			
07 - Operational System Development				0305206F Airborne Reconnaissance Systems				4882			
(U) A. Project Cost Breakdown (\$ in Thousands)											
						<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>	
(U)	COMPASS BRIGHT projects					4,492				4,447	
(U)	SPO Operations/Program Management Activities					330		267		435	
(U)	Total					4,822		267		4,882	
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)											
(U) Performing Organizations:											
	<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 2001</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget FY 2003</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>Product Development Organizations</u>										
	Various	Various	Various	TBD	TBD	0	4,492		4,447	Continuing	TBD
	<u>Support and Management Organizations</u>										
	Various	Various	Various	TBD	TBD	0	330	267	435	Continuing	TBD
	<u>Test and Evaluation Organizations</u>										
	None										
(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 2001</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget FY 2003</u>	<u>Budget to Complete</u>	<u>Total Program</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
Project 4882				Page 22 of 26 Pages				Exhibit R-3 (PE 0305206F)			

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)					DATE February 2002	
BUDGET ACTIVITY			PE NUMBER AND TITLE		PROJECT	
07 - Operational System Development			0305206F Airborne Reconnaissance Systems		4882	
			<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>
			to FY 2001	FY 2001	FY 2002	FY 2003
				<u>Budget to</u>		<u>Total</u>
				Complete		Program
<u>Subtotals</u>						
Subtotal Product Development			0	4,492		4,447
Subtotal Support and Management			0	330	267	435
Subtotal Test and Evaluation			0			
Total Project			0	4,822	267	4,882
						TBD
						TBD
						0
						TBD

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)	DATE February 2002
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BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems	PROJECT 5038
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COST (\$ in Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
5038 Network Centric Collaborative Targeting	0	0	2,489	4,970	3,966	990	0	0	12,500

Funds were transferred in FY02 from BPAC 674818, Imaging and Targeting Support, for FY03-06.

(U) A. Mission Description

The NCCT ACTD will demonstrate technologies and operational concepts required by Joint/Coalition warfighters by providing significant improvements in accuracy and timeliness of time sensitive target identification through 'front end' horizontal integration and collaboration of multiple ISR assets. NCCT will use a spiral development process to integrate demonstrate, and assess the ACTD capabilities over several years. The NCCT prototype network, expanded common network processing, and participant interface modules will be installed on selected ISR platforms and systems for demonstrations during the ACTD timeframe.

(U) FY 2001 (\$ in Thousands)

(U) \$0 No Activity
(U) \$0 Total

(U) FY 2002 (\$ in Thousands)

(U) \$0 No Activity
(U) \$0 Total

(U) FY 2003 (\$ in Thousands)

(U) \$2,489 Continue development of NCCT core technology.
(U) \$2,489 Total

(U) B. Project Change Summary

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE February 2002	
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0305206F Airborne Reconnaissance Systems				PROJECT 5038	
(U) C. Other Program Funding Summary (\$ in Thousands)									
	<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>Complete</u>	
(U) AF RDT&E	3,413	107							3,520
(U) E-3 AWACS PE 27417F		150	250	500					900
(U) E-8 JSTARS PE 27581F		250	250	500					1,000
(U) RC-135 PE 35207F		1,000	1,000	1,000	1,000	100			4,100
(U) DCGS PE 35208F		5,000							5,000
(U) CDL PE 35206 (BPAC 4819)		1,000	1,000	1,000	1,000	1,000			5,000
(U) OSD PE 0603750D		5,000	5,000	5,000	1,000	1,000			17,000
(U) Other APPN									
NCCT funding supports core technology development and platform integration costs. Funds for platform integration costs will be transferred to appropriate program offices within the Air Force and Army for direct contracting with the platform prime contractors. Army Guardrail and United Kingdom Nimrod are participating in the ACTD.									
(U) D. Acquisition Strategy									
Cost Plus Fixed Fee contracting is used for NCCT core technology development.									
(U) E. Schedule Profile									
				<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>	
				1	2	3	4	1	2
(U) Core technology development begins						X			
(U) NCCT - Focused TTP implementation at JCIET 02								X	
(U) NCCT Systems Integration Lab demo									X
X Denotes Planned Event									

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2002			
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT		
07 - Operational System Development				0305206F Airborne Reconnaissance Systems				5038		
(U) A. Project Cost Breakdown (\$ in Thousands)										
						<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>
(U)	Hardware/Software development									2,189
(U)	Systems Engineering									300
(U)	Total									2,489
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)										
(U) Performing Organizations:										
<u>Contractor or</u>	<u>Contract</u>									
<u>Government</u>	<u>Method/Type</u>	<u>Award or</u>	<u>Performing</u>	<u>Project</u>						
<u>Performing</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Activity</u>	<u>Office</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Organizations</u>										
ComCept, Inc.	CPFF	FY01	TBD	TBD				2,489	9,926	12,415
<u>Support and Management Organizations</u>										
<u>Test and Evaluation Organizations</u>										
					<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 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development								2,489	9,926	12,415
Subtotal Support and Management										
Subtotal Test and Evaluation										
Total Project								2,489	9,926	12,415