

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE June 2001		
BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0305202F Dragon U-2 (JMIP)						
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	0	32,248	32,804	13,965	1,951	1,948	1,989	2,031	Continuing	TBD	
4818 Imaging and Targeting Support	0	17,455	0	0	0	0	0	0	0	TBD	
4820 Sensor Development	0	14,793	12,819	11,951	1,951	1,948	1,989	2,031	Continuing	TBD	
4945 High Altitude Subsystems	0	0	19,985	2,014	0	0	0	0	Continuing	TBD	
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0	

Note: High Altitude Subsystems is a new BPAC to administratively replace Imaging and Targeting Support which exists in two PEs. Imaging and Targeting Support was previously called Advanced Technology -- a portion of which was moved from PE 0305206F effective FY01. Sensor Development was previously called Manned Reconnaissance Systems U-2 and was moved from PE 0305207F effective FY01. These are merely reallignment and name changes of BPACs to more accurately describe efforts within the U-2 Program.

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

(U) **A. Mission Description**
The RDT&E portion of this program element funds efforts required to enhance and sustain the U-2 Dragon reconnaissance aircraft. The RDT&E efforts in this PE focus on sensor and safety of flight projects. In addition to the RDT&E funding there are procurement funds associated with these developments.

(U) **B. Budget Activity Justification**
This program element is categorized as Budget Activity 7 because it provides for development of technologies and capabilities in support of operational system development for the U-2 Aircraft.

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BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0305202F Dragon U-2 (JMIP)**(U) C. Program Change Summary (\$ in Thousands)**

	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY 2001 PBR)	0	27,546	24,118	
(U) Appropriated Value		32,546		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions				
b. Small Business Innovative Research				
c. Omnibus or Other Above Threshold Reprogram				
d. Below Threshold Reprogram				
e. Rescissions		-298		
(U) Adjustments to Budget Years Since FY 2001 PBR			8,686	
(U) Current Budget Submit/FY 2002 PBR		32,248	32,804	TBD

(U) Significant Program Changes:

Funding for PE 0305202F project 674820 was reprogrammed from PE 0305207F project 674820 for FY01 and beyond (FY00 PBR - \$14.525M). See PE 0305207F for FY00 content.

Funding for PE 0305202F project 674818 was reprogrammed from a portion of PE 0305206F project 674818 for FY01 and beyond (FY00 PBR - \$17.616M). See PE 0305206F for FY00 content.

FY01 - Air Force reprogramed \$4.595M of Electronic Warfare System (EWS) RDT&E funding to procurement.

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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 0305202F Dragon U-2 (JMIP)					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	0	17,455	0	0	0	0	0	0	Continuing	TBD	
<p>Note: FY00 funding included in PE 0305206F (Only U-2 Defensive Systems portion relates to this program). FY02 and outyear funding in PE 0305202F/BPAC 674945 (High Altitude Sub-systems).</p> <p>FY03-FY07 numbers do not reflect DoD's strategic review results.</p> <p>(U) <u>A. Mission Description</u></p> <p>This project supports the U-2 Advanced Defensive System (ADS) development. ADS is designed to provide situational awareness and self-protection jamming to degrade and or detect the ability of surface-to-air weapon systems to engage the U-2 aircraft. A full ADS capability will be achieved through spiral upgrades. Spiral upgrades will address modern RF signals in the baseline system. Follow-on upgrades will include infrared warning and defense. Onboard and offboard data fusion will be provided as a growth provision to enhance situational awareness.</p> <p>(U) <u>FY 2000 (\$ in Thousands)</u></p> <p>(U) \$0 Funding included in PE 0305206F</p> <p>(U) \$0 Total</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u></p> <p>(U) \$9,493 Defensive System Hardware Development</p> <p>(U) \$5,500 Software Development</p> <p>(U) \$962 SPO Support</p> <p>(U) \$1,500 System Test</p> <p>(U) \$17,455 Total</p> <p>(U) <u>FY 2002 (\$ in Thousands)</u></p> <p>(U) \$0 Funding moved to PE 0305202F/BPAC 674945</p> <p>(U) \$0 Total</p> <p>(U) <u>B. Project Change Summary</u></p>											
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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)

DATE

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BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0305202F Dragon U-2 (JMIP)

PROJECT

4818

(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>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) AF RDT&E	8,600	0	0	0	0	0	0	0	0	8,600
(U) Other APPN		1,561	1,522	3,895	4,042	4,121	0	0	0	15,141

(U) **D. Acquisition Strategy**

Funds are for the engineering, manufacturing and development for the U-2 Advanced Defensesive System (ADS). A sole source contract was awarded to a prime contractor which will be responsible for delivering a total system. Efforts include the development of ADS, integration on the U-2 aircraft, testing and production planning.

(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
(U) U-2 ADS Milestone II		*							
(U) ADS Phase II Contract Award		*							
(U) Begin ADS Flight Testing							X		

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE June 2001		
BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT	
07 - Operational System Development					0305202F Dragon U-2 (JMIP)				4818	
(U) A. Project Cost Breakdown (\$ in Thousands)										
							FY 2000		FY 2001	FY 2002
(U)	Hardware and Software Development								9,493	
(U)	Systems Engineering								3,000	
(U)	Contractor Engineering Support								2,500	
(U)	Government Engineering Support								962	
(U)	System Test								1,500	
(U)	Total								17,455	
(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>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>
	<u>Product Development Organizations</u>									
	Adv Def Sys Cont	CPIF	Mar 00	27,800	27,800			15,116		Continuing
	<u>Support and Management Organizations</u>									
	ASC/RA							877		Continuing
	<u>Test and Evaluation Organizations</u>									
	Eglin AFB, Edwards AFB							1,462		1,462
						<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>Subtotals</u>									<u>Total</u>
	Subtotal Product Development							15,116		TBD
	Subtotal Support and Management							877		TBD
	Subtotal Test and Evaluation							1,462		1,462
	Total Project							17,455		TBD
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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)

DATE

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BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0305202F Dragon U-2 (JMIP)

PROJECT

4820

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
4820 Sensor Development	0	14,793	12,819	11,951	1,951	1,948	1,989	2,031	0	TBD

Note: FY99-FY00 funding included in PE 0305207F and was formerly titled Manned Reconnaissance Systems U-2.

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

(U) A. Mission Description

This development project supports high payoff improvements to the U-2 sensors such as the Advanced Synthetic Aperture Radar System (ASARS-2A) and the SENIOR YEAR Electro-optical Reconnaissance System (SYERS) 2 Improvement Program.

The ASARS-2A Program improves area search, precision geolocation, and image quality characteristics sufficiently to directly support the targeting of precision guided munitions (PGMs). Complex imagery will be produced by the ASARS-2A system and support significant exploitation products for the imagery analysts. ASARS-2A introduces Asynchronous Transfer Mode (ATM) datalink formats to the ISR community and supports National Imagery Transmission Format (NITF) standards. Several Line Replaceable Units (LRU) including the Process Control Unit (PCU), Receiver Exciter Controller (REC), and transmitter are approaching the end of their supportability life. Requirements include ASARS-2A reliability improvements/corrections and exploitation tools for the user (for example, system robustness, dual data link (DDL), beyond line of sight (BLOS), image quality, ground moving target indication (GMTI), Moving Target Exploitation (MTE) trackers, coherent change detection (CCD), electronic counter-countermeasures (ECCM), antenna replacements, super resolution, REC upgrades, intelligence bandwidth compression (IBC), interferometric SAR (IFSAR) and software upgrades. Developing new LRUs with next generation technology will make ASARS-2A supportable through the expected service life of the U-2 and provide capability enhancements necessary to support PGMs.

The SYERS 2 Improvement Program includes upgrades such as multi-spectral collection and processing, polarization collection and processing, possible hyperspectral collection and processing, and the associated exploitation tools for the user. SYERS 2 also includes reliability and maintainability upgrades to incorporate next generation technology, maintaining and enhancing system supportability.

Improvements to ASARS-2A and SYERS 2 are transferable to Global Hawk High Altitude Endurance Unmanned Aerial Vehicles (HAE UAV) should migration of this improvement become a requirement.

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BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0305202F Dragon U-2 (JMIP)	PROJECT 4820
<p>(U) <u>A. Mission Description Continued</u></p> <p>(U) <u>FY 2000 (\$ in Thousands)</u></p> <p>(U) \$0 Funding included in PE 0305207F</p> <p>(U) \$0 Total</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u></p> <p>(U) \$894 Continue ASARS-2A development</p> <p>(U) \$2,585 Continue On-Board Processor (OBP) and Receiver Exciter Controller (REC) improvements</p> <p>(U) \$1,418 Continue Dual Data Link (DDL-II) interface to ASARS-2A/SYERS</p> <p>(U) \$1,200 Conduct image quality (IQI) enhancements</p> <p>(U) \$1,385 Implement software updates</p> <p>(U) \$530 Flight test</p> <p>(U) \$686 Mission support</p> <p>(U) \$1,141 Fuels conversion</p> <p>(U) \$4,954 SYERS polarimetric development (SYERS 2)</p> <p>(U) \$14,793 Total</p> <p>(U) <u>FY 2002 (\$ in Thousands)</u></p> <p>(U) \$1,170 Continue Dual Data Link (DDL-II) interface</p> <p>(U) \$4,304 Continue ASARS-2A software/hardware development and image quality (IQI) tasks</p> <p>(U) \$2,650 Continue ASARS-2A system robustness improvements</p> <p>(U) \$1,000 Implement ECCM upgrades</p> <p>(U) \$500 Flight test</p> <p>(U) \$400 Image Chain Analysis</p> <p>(U) \$695 Mission Support</p> <p>(U) \$1,100 Fuels conversion</p> <p>(U) \$1,000 Advanced Defensive System (ADS)</p> <p>(U) \$12,819 Total</p> <p>(U) <u>B. Project Change Summary</u></p> <p>Congressional mark increased funding for SYERS polarimetric development in FY01.</p>		
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BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0305202F Dragon U-2 (JMIP)

PROJECT

4820**(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>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) RDT&E PE 0305207F - ASARS-2A	9,388	0	0	0	0	0	0	0	0	9,388
(U) APAF, Manned Recce, 0305207F - ASARS-2A Production*	15,312	0	0	0	0	0	0	0	0	15,312
(U) APAF, Manned Recce, 0305202F - ASARS-2A Production	0	12,777	18,659	4,000	4,100	4,500	4,500	5,700	0	54,236

(U) D. Acquisition Strategy

For airborne collection capability upgrades, modify existing platform and associated ground control equipment via Engineering Change Proposals (ECPs)/Task Orders to existing USAF contracts. For ASARS-2A and SYERS, develop and test new technology line replaceable units (LRUs). There is associated procurement funding tied to this development activity.

(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) ASARS-2A Program												
(U) - Begin DDL-II Phase 1 and DDL-II Phase 2							*					
(U) - Begin IQI Activities								X				
(U) - Continue DDL-II Interface									X			
(U) - Continue IQI Activities									X			
(U) - Continue ASARS-2A Development										X		
(U) SYERS 2 Improvement Program												
(U) - Begin SYERS Polarization Development								X				
(U) Begin Fuel Conversion Phase II										X		

Note: * 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					PE NUMBER AND TITLE					PROJECT	
07 - Operational System Development					0305202F Dragon U-2 (JMIP)					4820	
(U) A. Project Cost Breakdown (\$ in Thousands)											
					FY 2000		FY 2001		FY 2002		
(U) DDL-II Interface							1,418		1,170		
(U) Hardware/Software Development							6,064		7,354		
(U) ECCM Upgrades									1,000		
(U) System Testing							530		500		
(U) Mission Support							686		695		
(U) SYERS Polarimetric (SYERS 2)							4,954				
(U) Fuels Conversion Payback							1,141		1,100		
(U) ADS Payback									1,000		
(U) Total							14,793		12,819		
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)											
(U) Performing Organizations:											
Contractor or Government		Contract Method/Type		Award or Obligation		Performing Activity		Project Office		Total Prior to FY 2000	
Performing Activity		or Funding Vehicle		Date		EAC		EAC		Total Program	
Product Development Organizations											
Raytheon (ASARS-2Aand SYERS 2)		CPIF/CPFF		3Q96		80,982		105,000		0	
Support and Management Organizations											
ASC/RA										686	
Test and Evaluation Organizations											
Edwards AFB										30	
Palmdale										500	

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)					DATE June 2001	
BUDGET ACTIVITY		PE NUMBER AND TITLE				PROJECT
07 - Operational System Development		0305202F Dragon U-2 (JMIP)				4820
		<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>Subtotals</u>						<u>Total</u>
Subtotal Product Development		0	0	13,577	11,624	25,201
Subtotal Support and Management				686	695	1,381
Subtotal Test and Evaluation				530	500	1,030
Total Project		0	0	14,793	12,819	27,612

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BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0305202F Dragon U-2 (JMIP)

PROJECT

4945

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
4945 High Altitude Subsystems	0	0	19,985	2,014	0	0	0	0	0	0

Note: FY00 funding included in PE 0305206F (Only U-2 Defensive Systems portion relates to this program). FY01 funding included in PE 0305202F/BPAC 674818. In FY02 this BPAC changed number and title to High Altitude Subsystems.

FY03-07 budget numbers do not reflect DoD's strategic review results.

(U) **A. Mission Description**

This project supports development and integration of sub-systems on the U-2 [e.g. Advanced Defensive System (ADS) development, SIGINT, cockpit upgrades, navigator upgrades, datalinks], and U-2 specific interfaces required to other systems developed in other program elements (PE).

(U) **FY 2000 (\$ in Thousands)**

(U) \$0 No Activity

(U) \$0 Total

(U) **FY 2001 (\$ in Thousands)**

(U) \$0 Funding included in BPAC 674818/PE 0305202F

(U) \$0 Total

(U) **FY 2002 (\$ in Thousands)**

(U) \$10,535 Advanced Defensive System Block 30. Includes hardware/software development program and test program.

(U) \$7,000 Dual Data Link NRE (for two EMD units), integration and test

(U) \$2,000 SIGINT enhancements.

(U) \$450 Mission Support

(U) \$19,985 Total

(U) **B. Project Change Summary**

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BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0305202F Dragon U-2 (JMIP)

PROJECT

4945

(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>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) AF RDT&E	0	0	25,085	2,014	0	0	0	0	0	27,099
(U) Other APPN	0	0	19,200	24,200	22,500	16,500	11,200	10,600	0	104,200

(U) **D. Acquisition Strategy**

Funds are for the engineering, manufacturing and development for the U-2 Advanced Defensive System (ADS). A sole source contract has been awarded to a prime contractor which will be responsible for delivering a total system.

(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) U-2 ADS Milestone 2		*										
(U) ADS Phase 2 Contract Award		*										
(U) Begin ADS Testing										X		
(U) DDL-II Development & Int Contract										X		
(U) DDL-II DT Testing										X		
(U) DDL-II SIL Testing												X
(U) DDL-II Flight Testing												X
(U) DDL-II LRIP Award												
(U) SIGINT Development										X		

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BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT		
07 - Operational System Development					0305202F Dragon U-2 (JMIP)					4945		
(U) A. Project Cost Breakdown (\$ in Thousands)												
					FY 2000		FY 2001		FY 2002			
(U) Hardware and Software Development									19,535			
(U) Government Engineering Support									450			
(U) Total									19,985			
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)												
(U) Performing Organizations:												
Contractor or Government		Contract Method/Type		Award or Obligation		Performing Activity		Project Office		Total Prior		
Performing Activity		or Funding Vehicle		Date		EAC		EAC		to FY 2000		
								Budget FY 2000		Budget FY 2001		
								Budget FY 2002		Budget to Complete		
										Total Program		
Product Development Organizations												
ADS Ctr		CPIF		Mar 00		N/A		N/A		17,535 Continuing TBD		
Support and Management Organizations												
ASC/RA										450 Continuing TBD		
Test and Evaluation Organizations												
Eglin AFB, Edwards AFB										2,000 Continuing TBD		
					Total Prior to FY 2000		Budget FY 2000		Budget FY 2001		Budget FY 2002	
									Budget to Complete		Total Program	
Subtotals											17,535 TBD TBD	
Subtotal Product Development											450 TBD TBD	
Subtotal Support and Management											2,000 TBD TBD	
Subtotal Test and Evaluation											19,985 TBD TBD	
Total Project												

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