

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

DATE

February 2000

BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0305205F Endurance Unmanned Aerial Vehicles

COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	183,017	77,866	109,215	70,106	48,467	49,465	50,559	Continuing	TBD
674755 Predator	4,261	3,907	3,696	3,773	3,839	3,917	3,994	Continuing	TBD
674799 Global Hawk	97,493	73,959	103,219	66,333	44,628	45,548	46,565	Continuing	TBD
674815 DarkStar*	33,715	0	0	0	0	0	0	0	53,783
674816 Common Ground Segment	47,548	0	0	0	0	0	0	0	47,548
674883 JTC/SIL MUSE	0	0	2,300	0	0	0	0	0	TBD
Quantity of RDT&E Articles	0	0	2	0	0	0	0	0	0

Note: The DarkStar portion of the HAE UAV ACTD was canceled on 29 Jan 99. Request for reprogramming of DarkStar funds to Global Hawk and Common Ground Segment (DD1415-1 dated 24 Aug 99, DOD Ser. No. FY99-013 PA) was approved by Congress on 23 Dec 99. DarkStar and CGS funding lines have been transferred to the Global Hawk System program. The DarkStar and CGS funding lines will be deleted.

(U) A. Mission Description

Endurance Unmanned Aerial Vehicles (UAVs) are a family of unmanned vehicles developed under two separate Advanced Concept Technology Demonstrations (ACTD) They will provide all-weather, day/night, reconnaissance and surveillance in direct support of the Joint Forces Commander and integrate with existing airborne reconnaissance architectures for mission planning, data processing, exploitation and dissemination. The RQ-1A Predator UAV is a medium altitude endurance (MAE) UAV which completed its ACTD in FY96. The RQ-4A Global Hawk is a high altitude endurance (HAE) UAV. The Global Hawk, along with its associated ground station, the Common Ground Segment, is currently scheduled to complete its ACTD phase in June 00. The program will then transition to a 'normal' acquisition program in EMD.

(U) B. Budget Activity Justification

This program is budget activity 7, Operational Systems Development, because it involves Air Force R&D to field a viable system and develop additional operational capabilities.

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BUDGET ACTIVITY		PE NUMBER AND TITLE		
07 - Operational System Development		0305205F Endurance Unmanned Aerial Vehicles		
(U)	<u>C. Program Change Summary (\$ in Thousands)</u>			
		<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
	<u>Total Cost</u>			
(U)	Previous President's Budget (FY 2000 PBR)	188,423	70,835	26,788
(U)	Appropriated Value	188,957	79,800	
(U)	Adjustments to Appropriated Value			
	a. Congressional/General Reductions	-534		
	b. Small Business Innovative Research			
	c. Omnibus or Other Above Threshold Reprogram		-428	
	d. Below Threshold Reprogram	-4,382		
	e. Rescissions	-1,024	-1,506	
	f. Other			TBD
(U)	Adjustments to Budget Years Since FY 2000 PBR			82,427
(U)	Current Budget Submit/FY 2001 PBR	183,017	77,866	109,215
(U)	<u>Significant Program Changes:</u>			
	(1) FY99 below threshold reprogramming transferred funds to higher Air Force priorities.			
	(2) FY01 adjustment will fund Global Hawk engineering and manufacturing development (EMD) and operationalization.			

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BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles				PROJECT 674755		
COST (\$ in Thousands)		FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
674755	Predator	4,261	3,907	3,696	3,773	3,839	3,917	3,994	Continuing	TBD
<p>(U) <u>A. Mission Description</u> The Predator unmanned aerial vehicle (UAV) is a medium altitude endurance UAV capable of sustained (long dwell) surveillance of critical targets, under most weather conditions, at a range of 500 nm from the launch area. Twelve Predator systems are being procured (each system consists of four air vehicles, one ground control station, and one Predator primary satellite link). The Predator is equipped with Electro-Optical/Infrared (EO/IR) and Synthetic Aperture Radar (SAR) sensors. Predator also incorporates line-of-sight(LOS), narrow-band UHF SATCOM and wide-band Ku-band SATCOM datalinks capable of providing near-real-time (NRT) transmission of high resolution imagery throughout the operational envelope. The system supports the theater commander and interfaces with the Command, Control, Communication, Computer and Intelligence (C4I) architecture. The first five Predator systems were procured either from an Advanced Concept Technology Demonstration or in an interim configuration. Beginning with the sixth system, Predators will be in a Baseline configuration, with upgrades including de-icing, UHF/VHF voice relay, and IFF Mode IV. IR sensor improvements, growth payloads, work station upgrades and reliability and maintainability improvements are being considered as part of Block I. UAV Common Automatic Recovery System (UCARS) has been added by Congress. As a result of a combat mission need statement (C-MNS) generated during ALLIED FORCE operations in Kosovo, one Predator system was outfitted with a temporary laser designator for use with precision guided munitions. Congress added production funds in FY00 for a permanent laser designator capability, tactical common data link (TCDL) and dual channel communications, and directed compliance with Tactical Control System standards; all will be added to Block I improvements.</p>										
<p>(U) <u>FY 1999 (\$ in Thousands)</u></p>										
(U)	\$630	Preparation for operational test and evaluation (OT&E)								
(U)	\$904	Block 1 improvements (dual channel communications, Ku SATCOM tunability, Air Force Mission Support System (AFMSS) integration)								
(U)	\$290	Rectified identified air vehicle and ground station deficiencies to improve R&M								
(U)	\$1,763	Integrated UAV Common Automatic Recovery System (UCARS)								
(U)	\$674	Integrated temporary laser designator in response to C-MNS								
(U)	\$4,261	Total								
<p>(U) <u>FY 2000 (\$ in Thousands)</u></p>										
(U)	\$800	Conduct OT&E/developmental testing of Block I improvements								
(U)	\$2,750	Block I improvements (IR sensor improvements, growth payloads, work station upgrades, reliability and maintainability improvements)								
(U)	\$357	Field support (increased level of support to prepare for formal OT&E)								
(U)	\$3,907	Total								
Project 674755		Page 3 of 25 Pages				Exhibit R-2A (PE 0305205F)				

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BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles	PROJECT 674755
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(U) **E. Schedule Profile Continued**

	<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) TEMP approval		*										
(U) Delivery of first Baseline system						X						
(U) OT&E									X			
(U) Retrofit of ACTD Systems complete												X
* denotes completed event												
X denotes planned event												

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000			
BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles			PROJECT 674755		
(U) <u>A. Project Cost Breakdown (\$ in Thousands)</u>										
						<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>
(U)	Hardware/Software					1,600		1,342		2,067
(U)	Demonstrations and test					1,126		950		500
(U)	System integration and engineering support					978		1,195		704
(U)	Other technical/engineering					557		420		425
(U)	Total					4,261		3,907		3,696
(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 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>
	<u>Product Development Organizations</u>									
	General Atomics	SS/CPFF	Apr 98	N/A	N/A	9,692	3,214	2,881	3,071	Continuing
	PM TESAR			N/A	N/A	2,300				0
	<u>Support and Management Organizations</u>									
	ASC					0	417	426	425	Continuing
	AD/NAVAIR					320	0			0
	<u>Test and Evaluation Organizations</u>									
	AFOTEC					795	630	600	200	0
	Misc					330				0
(U) <u>Government Furnished Property:</u>										
		<u>Contract</u>								
		<u>Method/Type</u>	<u>Award or</u>							
	<u>Item</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Delivery</u>		<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
	<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>		<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>
	<u>Product Development Property</u>									
	<u>Support and Management Property</u>									

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)

DATE
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BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles	PROJECT 674755
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(U) Government Furnished Property Continued:

Test and Evaluation Property

<u>Subtotals</u>	<u>Total Prior</u> <u>to FY 1999</u>	<u>Budget</u> <u>FY 1999</u>	<u>Budget</u> <u>FY 2000</u>	<u>Budget</u> <u>FY 2001</u>	<u>Budget to</u> <u>Complete</u>	<u>Total</u> <u>Program</u>
Subtotal Product Development	11,992	3,214	2,881	3,071	TBD	TBD
Subtotal Support and Management	320	417	426	425	TBD	TBD
Subtotal Test and Evaluation	1,125	630	600	200	0	2,555
Total Project	13,437	4,261	3,907	3,696	TBD	TBD

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE February 2000	
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles				PROJECT 674799	
COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
674799 Global Hawk	97,493	73,959	103,219	66,333	44,628	45,548	46,565	Continuing	TBD
<p>Notes:</p> <p>(1) The DarkStar portion of the HAE UAV ACTD was canceled on 29 Jan 99. Request for reprogramming of \$17M of FY99 DarkStar funds to Global Hawk and Common Ground Segment (DD1415-1 dated 24 Aug 99, DOD Ser. No. FY99-013 PA) was approved by Congress on 23 Dec 99.</p> <p>(2) Remaining FY01-05 DarkStar and FY00-05 CGS funding lines have been transferred to the Global Hawk System program, to be consolidated under the Global Hawk Program.. The DarkStar and CGS funding lines will be deleted.</p> <p>(U) A. Mission Description</p> <p>The Global Hawk High Altitude Endurance (HAE) UAV program consists of the Global Hawk air vehicle and the Common Ground Segment (CGS). The Global Hawk System is being designed to provide continuous, all-weather, day/night, wide area surveillance and reconnaissance and includes the communications and interfaces with other theater systems required to support joint tactical warfighters at various levels of command. The Global Hawk air vehicle will be a fully automatic, high-altitude, long endurance unmanned aircraft that is directly responsive to theater tasking. Global Hawk will integrate with the existing tactical airborne reconnaissance architectures for tasking, mission planning, data processing, exploitation, and dissemination. It is designed to provide up to 40,000 sq. nmi. of wide area search radar imagery and either Electro-Optical (EO) or Infrared Radar (IR) imagery with 1m resolution per mission or up to 1900 EO, IR, or radar spot images per mission with 0.3m resolution. The design targeting accuracy is less than 20m CEP. The Global Hawk UAV is designed to standoff, operate in a low-to-moderate air defense threat environment and collect imagery while looking deep into high threat areas.</p> <p>In FY99 the Global Hawk System continued the user demonstration phase of the ACTD. Funding was used for fabrication and integration of air vehicles 3, 4, and 5, fabrication of the System Integration Lab, airframe improvements, and continued participation in Joint Military Exercises with the other services. Global Hawk entered the user demonstration phase in June 99 and since that time it has flown in 16 exercises, disseminated imagery to 5 different users, flown for extended periods of time overwater (enroute to Alaska), and accumulated over 200 hours in FAA-controlled airspace.</p> <p>In FY00, Global Hawk funding will complete the remaining work to be done in readying air vehicles 3, 4, & 5 for flight, finish the user demonstrations (ending in June 00), and complete the Military Utility Assessment (MUA), which will render a final evaluation of Global Hawk's utility to the warfighter. Congress added \$15M to the Global Hawk funding line in FY00 to preserve the Global Hawk industrial base. This will be accomplished by ordering long-lead items to begin fabrication of the two Congressionally-authorized ACTD air vehicles for EMD, identifying those operational deficiencies to be addressed during the EMD, and preparation for transitioning to EMD in FY01.</p>									
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BUDGET ACTIVITY		PROJECT
07 - Operational System Development	0305205F Endurance Unmanned Aerial Vehicles	February 2000 674799
(U) <u>A. Mission Description Continued</u>		
FY01 funding will be used to complete fabrication of air vehicles #6 & #7 (for EMD), Non-Recurring Engineering to evolve the Global Hawk to a Block 5 (including spiral development of sensors and other capabilities), initiate spiral development to Block 10 (ORD-compliant air vehicles) and support the overseas demonstration in Australia. The Australians are providing half of the funding for this demonstration effort.		
(U) <u>FY 1999 (\$ in Thousands)</u>		
(U) \$13,881	Product Development and Testing (Phase II)	
(U) \$40,266	Fabrication and Integration of air vehicles #3, #4, and #5 (Phase IIB)	
(U) \$28,463	Provided Contractor Demonstration and Evaluation Support necessary to accomplish Military Utility Assessment (Phase III)	
(U) \$9,000	System Integration Lab (Development Test Model)	
(U) \$5,883	Airframe Reliability and Maintainability Improvements (Producibility)	
(U) \$97,493	Total	
(U) <u>FY 2000 (\$ in Thousands)</u>		
(U) \$38,201	Provide Contractor and Government Demonstration and Evaluation Support necessary to accomplish Military Utility Assessment (Phase III)	
(U) \$2,200	Integrated Logistic Support	
(U) \$58	Complete Fabrication and Integration of air vehicles #3, #4, and #5 (Phase IIB)	
(U) \$15,000	Added to FY00 program per Congressional plus-up for the following:	
	-- Begin ACTD air vehicle #6 & #7 fabrication	
	-- Preparation for transition to EMD in FY01 (Address operability, supportability and safety deficiencies identified during the ACTD)	
(U) \$12,798	Added to program per consolidation of CGS and Global Hawk into same BPAC:	
	-- Development and test of demonstration CGS	
	-- Contractor participation in MUA	
	-- Government support, studies and related tasks for CGS	
(U) \$5,702	Government Support, Studies, and Related Tasks for the Global Hawk program	
(U) \$73,959	Total	
Project 674799	Page 9 of 25 Pages	Exhibit R-2A (PE 0305205F)

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BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0305205F Endurance Unmanned Aerial Vehicles

PROJECT

674799**(U) A. Mission Description Continued****(U) FY 2001 (\$ in Thousands)**

- (U) \$36,800 Fabrication and Integration of 2 additional ACTD air vehicles for EMD (#6 and #7) (Phase IIC)
- (U) \$44,600 Non-recurring Engineering (NRE) to evolve the Global Hawk System to a Block 5 configuration
 -- Includes spiral development of sensors and other capabilities
 -- Spiral development (Block 5 to Block 10) of air vehicles which will satisfy needs identified in the MUA and ORD
- (U) \$10,000 Operational Demonstration in Australia
- (U) \$6,000 Provide Government Test and Evaluation Support
- (U) \$5,819 Government Support, Studies and Related Tasks for the Global Hawk System Program
- (U) \$103,219 Total

(U) B. Project Change Summary

A Defense Acquisition Executive (DAE) directive issued on 20 Aug 99, directed the Air Force to initiate an acquisition program with a MSII decision at the end of FY00, buy 2 EMD air vehicles in FY01, and begin production of 2 air vehicles per year in FY02.

Approval was received from Congress on 23 Dec 99 on a DD1415-1, FY99-013 PA, to transfer \$17M of residual DarkStar funding to the Global Hawk and CGS programs. This transfer is not reflected in this PB submission, as the change has not yet been reflected in the funding database.

In response to concerns about preserving the Global Hawk industrial base, Congress added \$15M to the program in FY00 and added language authorizing the purchase of two additional ACTD air vehicles for EMD. The Congressional add will be used to begin fabrication of these 2 air vehicles and to begin preparations for EMD, which will begin in FY01, following the MSII acquisition decision in 4QFY00.

FY99 and FY00 funds for the procurement of air vehicles 6 & 7 and Pre-EMD (evolution of Global Hawk ACTD System into a FY99 Block 5 configuration) was not included in our FY99 and FY00 Budget Justification. Congress approved the reprogramming of FY99 Darkstar funds via DD Form 1415-1, DOD Serial Number FY99-013PA (approved Dec 99) to apply to this task. Additionally, in FY00 Congress added funds and authorized procurement of these additional vehicles. Initiation of this project is reflected within this FY01 Budget Request.

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BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles			PROJECT 674799		
(U) C. Other Program Funding Summary (\$ in Thousands)									
	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>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									
(U) Aircraft Procurement, AF (HAE UAV)			22,388	91,457	95,315	83,974	72,380	80	TBD
Funds are associated with preparation for and transition of HAE UAV ACTD to a Global Hawk System production program that will include CGS.									
(U) D. Acquisition Strategy									
The Global Hawk HAE UAV program began as an ACTD, under DARPA, in 1994. Five contractors originally submitted design proposals, with Northrop Grumman (Ryan Aeronautical Center) competitively selected to lead the design / development effort. Under the Development Phase agreement, the contractor will build and test five Global Hawk air vehicles, and a developmental ground segment. Streamlined procurement, using Other Transaction Authority, is being used to delete all non value-added tasks and documentation from the program.									
The Air Force assumed responsibility for the ACTD in October 98. Global Hawk will finish the ACTD phase in June 00, and the Military Utility Assessment (MUA) will be delivered in 4QFY00, providing an overall evaluation of Global Hawk's military utility and operational suitability. An acquisition decision in late 2000 follows delivery of the Military Utility Assessment from JFCOM.									
Based on the DAE directive of 20 Aug 99, the program will transition from an ACTD to a one year EMD (FY01) to an acquisition program (beginning in FY02). The EMD program consists of the total Global Hawk System which includes the CGS. EMD will evolve the Global Hawk System to a Block 5 configuration. While not completely ORD-compliant, these Block 5 air vehicles will have the minimum upgrades necessary to operationalize them for deployment. The program will utilize spiral development to operationalize the design of the EMD air vehicles to Block 5 to Block 10. Block 10 will correct deficiencies identified in the MUA and ORD, specifically those related to safety of flight, operability and supportability.									
In FY02 the program will commence procurement of 2 Block 5 air vehicles per year. The next upgrade will be Block 10 (ORD-compliant) air vehicles. Block 10 air vehicles are not budgeted in the current FYDP but will be addressed in future POM submissions.									
(U) E. Schedule Profile									
	<u>FY 1999</u>				<u>FY 2000</u>			<u>FY 2001</u>	

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BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles	PROJECT 674799
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(U) <u>E. Schedule Profile Continued</u>												
		<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>		
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Demonstration support award		*										
(U) User field demos with warfighters			*									
(U) ACTD ends						X						
(U) Military Utility Assessment								X				
(U) Acquisition decision								X				
(U) Start of EMD Program, purchase of air vehicles 6 & 7									X			
(U) Australian Demonstration										X		
* denotes completed event												
X denotes planned event												

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000			
BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT			
07 - Operational System Development				0305205F Endurance Unmanned Aerial Vehicles			674799			
(U) A. Project Cost Breakdown (\$ in Thousands)										
				<u>FY 1999</u>		<u>FY 2000</u>			<u>FY 2001</u>	
(U)	Product Development and Testing (Phase II)			13,881						
(U)	Fabrication and Integration of air vehicles #3, #4, and #5 (Phase IIB)			40,266		58				
(U)	Provide Contractor Demonstration and Evaluation Support necessary to accomplish Military Utility Assessment (Phase III)			28,463		22,735				
(U)	System Integration Lab (Development Test Model)			9,000						
(U)	Airframe Reliability and Maintainability Improvements (Producibility)			5,883						
(U)	Provide Government Demonstration and Evaluation Support necessary to accomplish Military Utility Assessment					15,466				
(U)	FY00 Congressional Plus-up for the following:					15,000				
(U)	-- Begin air vehicle #6 and #7 fabrication									
(U)	-- Begin preparation for transition to EMD in FY01									
(U)	Integrated Logistic Support					2,200				
(U)	Added to program per consolidation of CGS and Global Hawk into same BPAC:					12,798				
(U)	-- Development and test of demonstration CGS									
(U)	-- Contractor participation in MUA									
(U)	-- Government support, studies and related tasks for the CGS									
(U)	Government Support, Studies and Related Tasks for the Global Hawk System					5,702			5,819	
(U)	Fabrication and Integration of air vehicles #6 and #7 (Phase IIC)								36,800	
(U)	Non-recurring Engineering (NRE) to evolve the Global Hawk System to a Block 5 configuration								44,600	
(U)	Operational Demonstration in Australia								10,000	
(U)	Provide Government Test and Evaluation Support								6,000	
(U)	Total			97,493		73,959			103,219	
(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 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>
										<u>Total</u>
										<u>Program</u>
Project 674799										
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Exhibit R-3 (PE 0305205F)										

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000		
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT	
07 - Operational System Development				0305205F Endurance Unmanned Aerial Vehicles				674799	
(U) Performing Organizations Continued:									
<u>Product Development Organizations</u>									
Ryan Aeronautical Center	SS/CPFF/IF	N/A	N/A	0	97,493	48,172	84,200	Continuing	TBD
Various						977			977
<u>Support and Management Organizations</u>									
Various		N/A	N/A	0	0	8,855	13,019	Continuing	TBD
Support ASC						1,630			1,630
<u>Test and Evaluation Organizations</u>									
AFFTC		N/A	N/A	0	0	7,250	3,000	Continuing	TBD
AFOTEC		N/A	N/A	0	0	5,825	2,000	Continuing	TBD
Various		N/A	N/A	0	0	1,250	1,000	Continuing	TBD
				<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 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development				0	97,493	49,149	84,200	TBD	TBD
Subtotal Support and Management				0	0	10,485	13,019	TBD	TBD
Subtotal Test and Evaluation				0	0	14,325	6,000	TBD	TBD
Total Project				0	97,493	73,959	103,219	TBD	TBD

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE February 2000																																									
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles				PROJECT 674815																																									
COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost																																								
674815 DarkStar*	33,715	0	0	0	0	0	0	0	53,783																																								
<p>(U) <u>A. Mission Description</u> DarkStar portion of HAE ACTD cancelled 29 Jan 99. On 24 Aug 99 a DD1415-1 was submitted to Congress to transfer \$17M of residual DarkStar funding to the Global Hawk and CGS programs. All FY 01 through 05 funds have been transferred to the Global Hawk System Program.</p> <p>(U) <u>FY 1999 (\$ in Thousands)</u> (U) \$16,715 Contract / Program Closeout (U) \$17,000 Transfer to Global Hawk and Common Ground Segment to correct Global Hawk 'must fix' items identified during flight test, mitigate a one-year production break, and enhance pre-Engineering Manufacturing Development (EMD) activities as required by Congress. Funds are also needed to begin pre-EMD on the CGS subprogram. Both Global Hawk and CGS require the procurement of test spare parts to support user demonstrations. (U) \$33,715 Total</p> <p>(U) <u>FY 2000 (\$ in Thousands)</u> (U) \$0 No funds. Line zeroed out by Congress in 00. (U) \$0 Total</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u> (U) \$0 Project funds have been merged into the Global Hawk system program. (U) \$0 Total</p> <p>(U) <u>B. Project Change Summary</u></p> <p>(U) <u>C. Other Program Funding Summary (\$ in Thousands)</u></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;"></th> <th style="width:5%;"><u>FY 1999</u></th> <th style="width:5%;"><u>FY 2000</u></th> <th style="width:5%;"><u>FY 2001</u></th> <th style="width:5%;"><u>FY 2002</u></th> <th style="width:5%;"><u>FY 2003</u></th> <th style="width:5%;"><u>FY 2004</u></th> <th style="width:5%;"><u>FY 2005</u></th> <th style="width:5%;"><u>Cost to</u></th> <th style="width:5%;"><u>Total Cost</u></th> </tr> <tr> <td></td> <td align="center"><u>Actual</u></td> <td align="center"><u>Estimate</u></td> <td align="center"><u>Estimate</u></td> <td align="center"><u>Estimate</u></td> <td align="center"><u>Estimate</u></td> <td align="center"><u>Estimate</u></td> <td align="center"><u>Estimate</u></td> <td align="center"><u>Complete</u></td> <td></td> </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 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>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									
	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>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																																																	

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)	DATE February 2000
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BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles	PROJECT 674815
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(U) **D. Acquisition Strategy**
N/A

(U) **E. Schedule Profile**

	<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Program terminated		*										

(U) Program terminated
* denotes completed event
X denotes planned event

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000				
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT			
07 - Operational System Development				0305205F Endurance Unmanned Aerial Vehicles				674815			
(U) A. Project Cost Breakdown (\$ in Thousands)											
						<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>	
(U)	Contract/program close-out					16,715		0		0	
(U)	transfer to Global Hawk and Common Ground Segment to correct Global Hawk must fix items identified during flight test, mitigate a one-year production break, and enhance pre-Engineering Manufacturing Development (EMD) activities as required by Congress.					17,000		0		0	
(U)	Total					33,715		0		0	
(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 1999</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>Performing Activity</u>	<u>or Funding Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>						
	<u>Product Development Organizations</u>										
	LMSW	SS/CPIF		N/A	N/A	20,068	16,715			0	36,783
	Transfer to Global Hawk and Common Ground Segment - Ryan Aeronautical Center				N/A	N/A	17,000	0	0	0	17,000
	<u>Support and Management Organizations</u>										
	<u>Test and Evaluation Organizations</u>										
(U) Government Furnished Property:											
	<u>Item</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Delivery</u>		<u>Total Prior to FY 1999</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>Description</u>	<u>or Funding Vehicle</u>	<u>Date</u>	<u>Date</u>							
	<u>Product Development Property</u>										
	<u>Support and Management Property</u>										
	<u>Test and Evaluation Property</u>										

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)		DATE					
07 - Operational System Development		0305205F Endurance Unmanned Aerial Vehicles			February 2000		
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 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
<u>Subtotals</u>							
Subtotal Product Development		20,068	33,715	0	0	0	53,783
Subtotal Support and Management							
Subtotal Test and Evaluation							
Total Project		20,068	33,715	0	0	0	53,783

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE February 2000																																											
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles				PROJECT 674816																																										
COST (\$ in Thousands)		FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost																																								
674816	Common Ground Segment	47,548	0	0	0	0	0	0	0	47,548																																								
<p>(U) <u>A. Mission Description</u> The Common Ground Segment (CGS) is an integral part of the HAE UAV system. With the cancellation of the DarkStar portion of the HAE UAV ACTD, there is no need to maintain a separate BPAC for the CGS. Accordingly, funds from FY00-05 have been merged into the Global Hawk program (BPAC 674799).</p> <p>(U) <u>FY 1999 (\$ in Thousands)</u> (U) \$11,764 Development and test in support of Global Hawk system (U) \$14,303 Contractor participation in Military Utility Assessment (U) \$10,336 Government participation in Military Utility Assessment (U) \$11,145 Government support, studies, and related tasking support of the HAE UAV ACTD programs (U) \$47,548 Total</p> <p>(U) <u>FY 2000 (\$ in Thousands)</u> (U) \$0 Project funds have been merged into Global Hawk (U) \$0 Total</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u> (U) \$0 Project funds have been merged into Global Hawk (U) \$0 Total</p> <p>(U) <u>B. Project Change Summary</u> Project funds have been transferred into the Global Hawk System program (BPAC 674799)</p> <p>(U) <u>C. Other Program Funding Summary (\$ in Thousands)</u></p> <table border="1"> <thead> <tr> <th></th> <th><u>FY 1999</u> <u>Actual</u></th> <th><u>FY 2000</u> <u>Estimate</u></th> <th><u>FY 2001</u> <u>Estimate</u></th> <th><u>FY 2002</u> <u>Estimate</u></th> <th><u>FY 2003</u> <u>Estimate</u></th> <th><u>FY 2004</u> <u>Estimate</u></th> <th><u>FY 2005</u> <u>Estimate</u></th> <th><u>Cost to</u> <u>Complete</u></th> <th><u>Total Cost</u></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> <tr> <td>(U) Aircraft Procurement, AF (HAE UAV)</td> <td></td> <td></td> <td align="right">22,966</td> <td align="right">94,046</td> <td align="right">97,978</td> <td align="right">86,008</td> <td align="right">74,006</td> <td>Continuing</td> <td align="right">TBD</td> </tr> </tbody> </table>												<u>FY 1999</u> <u>Actual</u>	<u>FY 2000</u> <u>Estimate</u>	<u>FY 2001</u> <u>Estimate</u>	<u>FY 2002</u> <u>Estimate</u>	<u>FY 2003</u> <u>Estimate</u>	<u>FY 2004</u> <u>Estimate</u>	<u>FY 2005</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	(U) AF RDT&E										(U) Other APPN										(U) Aircraft Procurement, AF (HAE UAV)			22,966	94,046	97,978	86,008	74,006	Continuing	TBD
	<u>FY 1999</u> <u>Actual</u>	<u>FY 2000</u> <u>Estimate</u>	<u>FY 2001</u> <u>Estimate</u>	<u>FY 2002</u> <u>Estimate</u>	<u>FY 2003</u> <u>Estimate</u>	<u>FY 2004</u> <u>Estimate</u>	<u>FY 2005</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>																																									
(U) AF RDT&E																																																		
(U) Other APPN																																																		
(U) Aircraft Procurement, AF (HAE UAV)			22,966	94,046	97,978	86,008	74,006	Continuing	TBD																																									

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)	DATE February 2000
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BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles	PROJECT 674816
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(U) **C. Other Program Funding Summary (\$ in Thousands)**

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>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>	

Funds are associated with preparation for and transition of HAE UAV ACTD to a Global Hawk System production program that will include CGS and be funded from BPAC 674799.

(U) **D. Acquisition Strategy**
CGS funds have been merged with Project 674799 - Global Hawk as the Global Hawk System transitions from an ACTD to a formal acquisition program.

(U) **E. Schedule Profile**

	<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4

(U) Demonstration support award

(U) Fabricate demo CGS

* denotes completed event

X denotes planned event

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 2000			
BUDGET ACTIVITY					PE NUMBER AND TITLE			PROJECT			
07 - Operational System Development					0305205F Endurance Unmanned Aerial Vehicles			674816			
(U) A. Project Cost Breakdown (\$ in Thousands)											
						<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>	
(U)	Development and test in support of Global Hawk system					11,764		0			
(U)	Contractor Participation in the Military Utility Assessment					14,303		0			
(U)	Government Participation in the Military Utility Assessment					10,336		0			
(U)	Government Support, Studies and Related Tasks in support of the HAE UAV ACTD Programs					11,145		0			
(U)	Total					47,548		0			
(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 1999</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Product Development Organizations</u>											
	Raytheon			N/A	N/A		13,485	0	0	0	13,485
	Ryan Aeronautical Center			N/A	N/A		10,795	0	0	0	10,795
	Various			N/A	N/A		994	0	0	0	994
<u>Support and Management Organizations</u>											
	ASC			N/A	N/A		2,272	0	0	0	2,272
	Various			N/A	N/A		9,716	0	0	0	9,716
<u>Test and Evaluation Organizations</u>											
	AFFTC			N/A	N/A		4,307	0	0	0	4,307
	AFOTEC			N/A	N/A		4,914	0	0	0	4,914
	Various			N/A	N/A		1,065	0	0	0	1,065
(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 1999</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000		
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles			PROJECT 674816		
(U) Government Furnished Property Continued:									
	<u>Contract</u>								
	<u>Method/Type</u>	<u>Award or</u>							
<u>Item</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Delivery</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>	<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Property</u>									
<u>Support and Management Property</u>									
<u>Test and Evaluation Property</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 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development					25,274	0	0	0	25,274
Subtotal Support and Management					11,988	0	0	0	11,988
Subtotal Test and Evaluation					10,286	0	0	0	10,286
Total Project					47,548	0	0	0	47,548

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE February 2000																																									
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles				PROJECT 674883																																									
COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost																																								
674883 JTC/SIL MUSE	0	0	2,300	0	0	0	0	0	TBD																																								
<p>(U) <u>A. Mission Description</u> The Joint Technology Center/System Integration Laboratory Multiple UAV Simulation Environment (JTC/SIL MUSE) provides a simulation tool for development of the Army's tactical UAV (TUAV) and the Navy's vertical takeoff UAV (VTUAV). The level of future Air Force participation in this project beyond FY01 is the subject of on-going discussions between the Air Force and OSD.</p> <p>(U) <u>FY 1999 (\$ in Thousands)</u> (U) \$0 (U) \$0 Total</p> <p>(U) <u>FY 2000 (\$ in Thousands)</u> (U) \$0 (U) \$0 Total</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u> (U) \$2,300 JTC/SIL MUSE (U) \$2,300 Total</p> <p>(U) <u>B. Project Change Summary</u> A separate project code within PE 35205F provides visibility of the funds supporting the JTC/SIL MUSE. The level of future Air Force participation in this project beyond FY01 is the subject of on-going discussions between the Air Force and OSD.</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 style="text-align: center;"><u>FY 1999</u></th> <th style="text-align: center;"><u>FY 2000</u></th> <th style="text-align: center;"><u>FY 2001</u></th> <th style="text-align: center;"><u>FY 2002</u></th> <th style="text-align: center;"><u>FY 2003</u></th> <th style="text-align: center;"><u>FY 2004</u></th> <th style="text-align: center;"><u>FY 2005</u></th> <th style="text-align: center;"><u>Cost to</u></th> <th style="text-align: center;"><u>Total Cost</u></th> </tr> <tr> <th></th> <th style="text-align: center;"><u>Actual</u></th> <th style="text-align: center;"><u>Estimate</u></th> <th style="text-align: center;"><u>Complete</u></th> <th></th> </tr> </thead> <tbody> <tr> <td>(U) AF RDT&E</td> <td align="center">0</td> <td align="center">0</td> <td align="center">2,300</td> <td align="center">0</td> <td align="center">0</td> <td align="center">0</td> <td align="center">0</td> <td align="center">Continuing</td> <td align="center">TBD</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> <p>(U) <u>D. Acquisition Strategy</u> N/A</p>											<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>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	0	0	2,300	0	0	0	0	Continuing	TBD	(U) Other APPN									
	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>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	0	0	2,300	0	0	0	0	Continuing	TBD																																								
(U) Other APPN																																																	
Project 674883			Page 23 of 25 Pages				Exhibit R-2A (PE 0305205F)																																										

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)	DATE February 2000
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BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles	PROJECT 674883
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(U) **E. Schedule Profile**

	<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) No activity planned												

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000			
BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles			PROJECT 674883		
(U) A. Project Cost Breakdown (\$ in Thousands)					<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>			
(U) No activity planned										
(U) Total										
(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 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Organizations</u>										
No activity planned								2,300	Continuing	TBD
<u>Support and Management Organizations</u>										
<u>Test and Evaluation Organizations</u>										
(U) Government Furnished Property:										
	<u>Contract</u>									
	<u>Method/Type</u>	<u>Award or</u>								
<u>Item</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Delivery</u>		<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>		<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Property</u>										
<u>Support and Management Property</u>										
<u>Test and Evaluation Property</u>										
<u>Subtotals</u>					<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
Subtotal Product Development								2,300	TBD	TBD
Subtotal Support and Management										
Subtotal Test and Evaluation										
Total Project								2,300	TBD	TBD