

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2004
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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles
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Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	352.679	401.413	0.000	0.000	0.000	0.000	0.000	0.000	TBD
4755 Predator	20.468	40.595	0.000	0.000	0.000	0.000	0.000	0.000	TBD
4799 Global Hawk	332.211	360.818	0.000	0.000	0.000	0.000	0.000	0.000	TBD

Global Hawk and Predator will no longer share the same PE after FY04. In FY05 and out, all Global Hawk funding will be in PE 305220F, project 675144. Predator funding will move to PE 305219F, project 675143.

(U) A. Mission Description and Budget Item Justification

Endurance Unmanned Aerial Vehicles (UAVs) are a family of unmanned vehicles developed to provide all-weather, day/night, intelligence, surveillance and reconnaissance (ISR) in direct support of theater ISR collection requirements; and integrate with existing ISR architectures for mission planning, data processing, exploitation and dissemination.

The MQ-1 Predator UAV is a long-dwell, autonomous, unmanned reconnaissance system capable of operating over-the-horizon while providing real-time intelligence information to the Joint Task Force Commander. The air vehicle (A/V) carries electro-optical (EO), Infra-Red (IR) and synthetic aperture radar (SAR), and is capable of transmitting near real time imagery to the task force commander throughout the operational theater. All Predator aircraft are being produced with the Multi-spectral Targeting System (MTS) (a sensor turret that incorporates EO/IR, laser designator/range-finder, and IR illuminator), plus the capability to employ Hellfire laser-guided missiles.

The MQ-9 Predator B is a multi-role UAV, larger than the MQ-1 and will be capable of flying at higher speeds and altitudes. The aircraft will primarily function in a hunter-killer role, employing fused multi-spectral sensors to find, fix, and track ground targets and assess post-strike results. It is in continuing development and will field capability through evolving spirals. The first spiral is the flight characterization evaluation of the original off-the-shelf, proto-type aircraft (Spiral 0). Spiral 1 integrates, tests, and demonstrates the ability to deliver Hellfire laser-guided missiles. Spiral 2 increases the aircraft's gross take-off weight, integrate redundant avionics, a digital electronically controlled engine, sensor/stores management computer, MIL-STD-1760 advanced weapons data bus, and improved the human-machine interface.

The Global Hawk System consists of the RQ-4A Unmanned Aerial Vehicle (UAV), the AN/MSQ-131 Ground Segment (GS), and its support system. Global Hawk is a fully autonomous, high altitude, long endurance unmanned aircraft designed as an Intelligence, Surveillance and Reconnaissance (ISR) platform. The RQ-4A is an imagery intelligence-collecting UAV designed to carry 2,000 pounds of payload. Its payload includes an Integrated Sensor Suite (ISS) which contains Synthetic Aperture Radar (SAR) with Ground Moving Target Indicator (GMTI) capability, along with an Electro-Optical (EO)/Infrared (IR) camera.

The RQ-4B is a multi-intelligence collecting UAV with a payload capacity of 3,000 pounds. Its payload includes an improved ISS as well as spiraling in an incremental signals intelligence capability providing both high-band and low-band signals. The GS consists of the Mission Control Element (MCE) and the Launch and Recovery Element (LRE). Global Hawk will provide continuous, all-weather, day/night, wide area ISR and includes the interfaces with other theater systems required to support

Exhibit R-2, RDT&E Budget Item Justification

DATE

February 2004

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0305205F Endurance Unmanned Aerial Vehicles

joint tactical warfighters at various levels of command. It is designed to provide up to 40,000 sq. nmi. of search radar imagery and EO or IR imagery per mission. Global Hawk is designed as a standoff imagery platform with the capability to operate in low-to-moderate air defense threat environments, and collect imagery while looking line of sight into high threat areas.

This program is budget activity 7, Operational Systems Development, because it involves Air Force R&D to field a highly capable operational system and provide essential operational capabilities.

(U) B. Program Change Summary (\$ in Millions)

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Previous President's Budget	346.713	398.631	
(U) Current PBR/President's Budget	352.679	401.413	
(U) Total Adjustments	5.966	2.782	
(U) Congressional Program Reductions		-0.078	
Congressional Rescissions	-3.897	-3.440	
Congressional Increases	6.030	6.300	
Reprogrammings	3.833		
SBIR/STTR Transfer			
(U) <u>Significant Program Changes:</u>			

Exhibit R-2a, RDT&E Project Justification

DATE
February 2004

BUDGET ACTIVITY 07 Operational System Development				PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles			PROJECT NUMBER AND TITLE 4755 Predator		
Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
4755 Predator	20.468	40.595	0.000	0.000	0.000	0.000	0.000	0.000	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

Starting in FY05, all Predator funds will be reported in PE0305219F.

(U) A. Mission Description and Budget Item Justification

The Predator program includes RQ/MQ-1 and MQ-9 unmanned aerial vehicles (UAVs), mobile and fixed Ground Control Stations (GCS), and associated communications and support equipment.

The RQ/MQ-1 Predator Unmanned Aerial Vehicle is a long dwell reconnaissance system capable of surveillance of critical targets at a range of 400 nm from the launch area. Predator is equipped with Electro-Optical/Infrared (EO/IR) and Synthetic Aperture Radar (SAR) sensors. The entire fleet is being fitted with Multi-spectral Targeting System (MTS) sensors capable of laser target designation and illumination. Additionally all aircraft will be modified to allow HELLFIRE laser-guided missile employment. Predator incorporates line-of-sight (LOS) and wide-band Ku-band SATCOM datalinks capable of providing near-real-time (NRT) transmission of high resolution imagery throughout the operational envelope. As Predator moves into its multi-mission role, the Air Force will continue experiments to expand roles, missions, sensors, and new weapons capabilities to leverage its battlefield persistence.

The MQ-9 is currently in flight test and will continue its development as a hunter-killer, Reconnaissance, Surveillance, and Target Acquisition (RSTA) asset. Two aircraft were procured as they were configured from the contractor (Spiral 0). The Air Force is currently defining the full operational configuration for Predator B and will spirally develop the system to meet our requirements. Spiral 1 increases takeoff gross weight, adds redundant avionics, advanced digital sensors, wing hard points for weapons, and delivers a capability to deliver HELLFIRE laser-guided missiles. Spiral 2 will integrate advanced weapons and update the human-machine interface. Subsequent spirals will develop follow-on sensors/payloads and update GCS and associated communications equipment.

Budget Activity Justification: This program is budget activity 7, Operational Systems Development, because it involves Air Force R&D to field a highly capable operational system and provide essential operational capabilities.

(U) B. Accomplishments/Planned Program (\$ in Millions)

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Accomplishments/Planned Program	0.000	0.000	
(U) Pre-planned Product Improvement (To include: Advanced capabilities, sensor integration, quick reaction capabilities, payload development/integration, weaponization and experimentation)	8.362		
(U) MQ-9 Spiral development (aircraft improvements, development and integration of follow-on sensors, weapons and payloads, and associated communications equipment)	8.731		
(U) Predator View situational awareness/mission planning system	2.000		
(U) System concept studies	0.375	1.000	

UNCLASSIFIED

Exhibit R-2a, RDT&E Project Justification	DATE February 2004
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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles	PROJECT NUMBER AND TITLE 4755 Predator
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(U) Rectify identified air vehicle and ground station deficiencies to improve reliability and maintainability	0.500		
(U) Development and Operational Test	0.450		
(U) Field support	0.050	1.000	
(U) MQ-1 Pre-planned Product Improvement (To include: Advanced capabilities, sensor integration, quick reaction capabilities, payload development/integration, weaponization and experimentation, continuing developmental testing for TC DL integration, and associated communications equipment.		3.000	
(U) MQ-9 spiral development (aircraft improvements, development and integration of follow-on sensors, weapons and payloads, and associated communications equipment)		27.578	
(U) Continue a reliability and maintainability program to ensure the continued viability of the MQ-1/MQ-9 air vehicle, ground control station, and associated communications equipment.		4.204	
(U) Developmental and Operational Test		3.813	
(U) Total Cost	20.468	40.595	0.000

(U) C. Other Program Funding Summary (\$ in Millions)

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>Cost to Complete</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) AF RDT&E									
(U) Other APPN									
(U) Aircraft Procurement, AF (PE 35205F), Predator	129.534	196.369							
(U) Aircraft Modification, AF (PE 35205F)	10.145	14.178							
(U) Aircraft Initial Spares, AF (PE 35205F)	8.497	0.377							

(U) D. Acquisition Strategy

Both the MQ-1 Predator and MQ-9 Predator B will be acquired through the BIG SAFARI Program Office. MQ-1 Predator is in accelerated production with ISR sensors, laser designators, and weapon delivery capability. MQ-9 Predator B will be acquired as a 'Hunter Killer' system through a series of spirals to rapidly deliver combat capability. Each spiral will build on the delivered capability from the previous spirals and will include advanced sensor capabilities and evolving weapon payloads. Prime contractor for both aircraft is General Atomics Aeronautical Systems Inc.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis

DATE

February 2004

BUDGET ACTIVITY			PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE				
07 Operational System Development			0305205F Endurance Unmanned Aerial Vehicles					4755 Predator				
<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total</u> Prior to FY 2003 Cost	<u>FY</u> 2003 Cost	<u>FY</u> 2003 Award Date	<u>FY</u> 2004 Cost	<u>FY</u> 2004 Award Date	<u>FY</u> 2005 Cost	<u>FY</u> 2005 Award Date	<u>Cost to Complete</u>	<u>Total</u> Cost	<u>Target</u> Value of Contract
<u>(U) Product Development</u>												
General Atomics Aeronautical Systems Incorporated (GA-ASI)	SS/CPFF	GA-ASI Rancho Bernardo CA	9.692	19.518	Feb-03	37.145	Feb-04			Continuing	TBD	
Subtotal Product Development			9.692	19.518		37.145		0.000		Continuing	TBD	0.000
Remarks:												
<u>(U) Support</u>												
ASC	SS/T&M	Wright-Patterson AFB OH	0.000	0.500	Feb-03	0.750	Feb-04			Continuing	TBD	
Subtotal Support			0.000	0.500		0.750		0.000		Continuing	TBD	0.000
Remarks:												
<u>(U) Test & Evaluation</u>												
AFOTEC	MIPR	Kirtland AFB NM	0.795	0.200	Feb-03	1.000	Feb-04			Continuing	TBD	
Misc	Various	Various	0.330	0.250	Feb-03	1.700	Feb-04			Continuing	TBD	
Subtotal Test & Evaluation			1.125	0.450		2.700		0.000		Continuing	TBD	0.000
Remarks:												
<u>(U) Total Cost</u>			10.817	20.468		40.595		0.000		Continuing	TBD	0.000

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2004

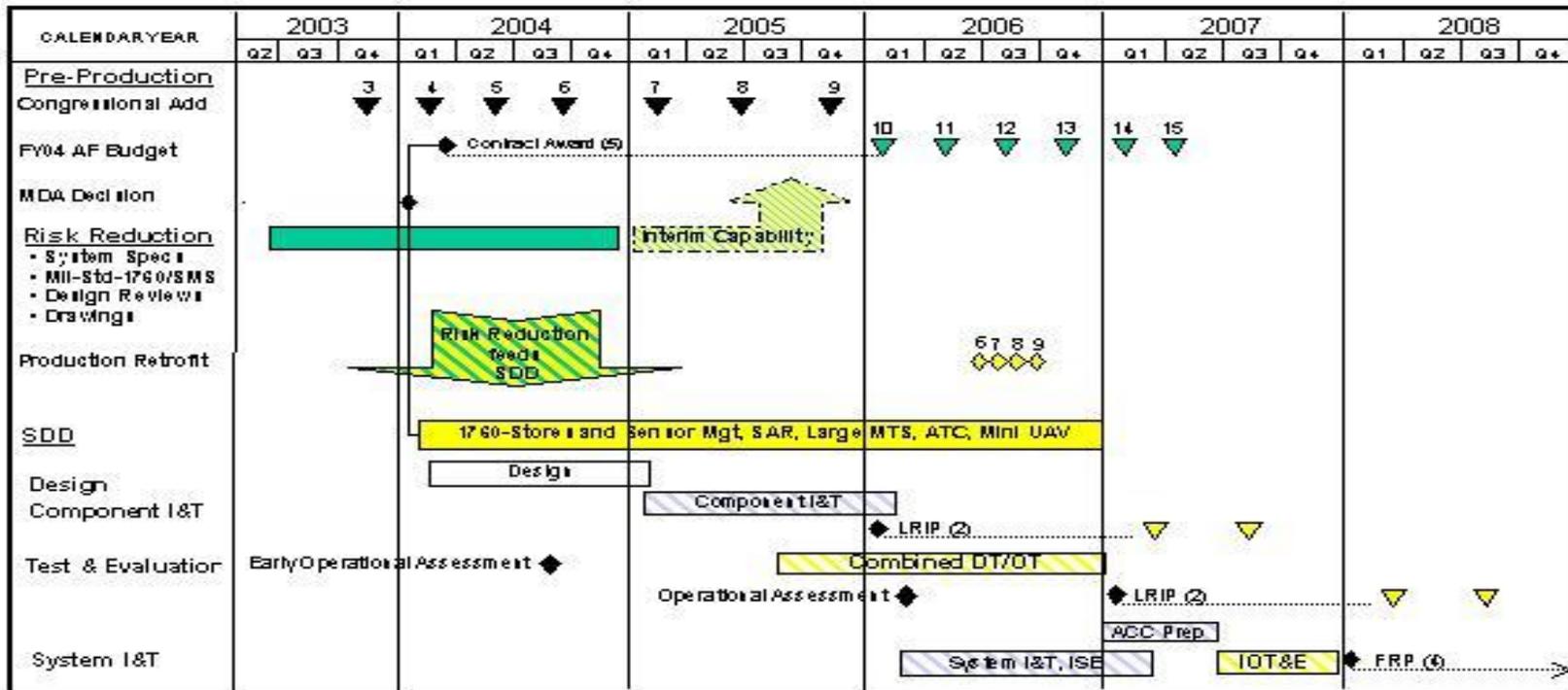
BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0305205F Endurance Unmanned
Aerial Vehicles

PROJECT NUMBER AND TITLE
4755 Predator



MQ-9 Predator B Timeline



FY	2003	2004	2005	2006	2007	2008	2009
MQ-9 Aircraft Buys (FY05 APOM)	3	6	2	2	2	4	8

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2004

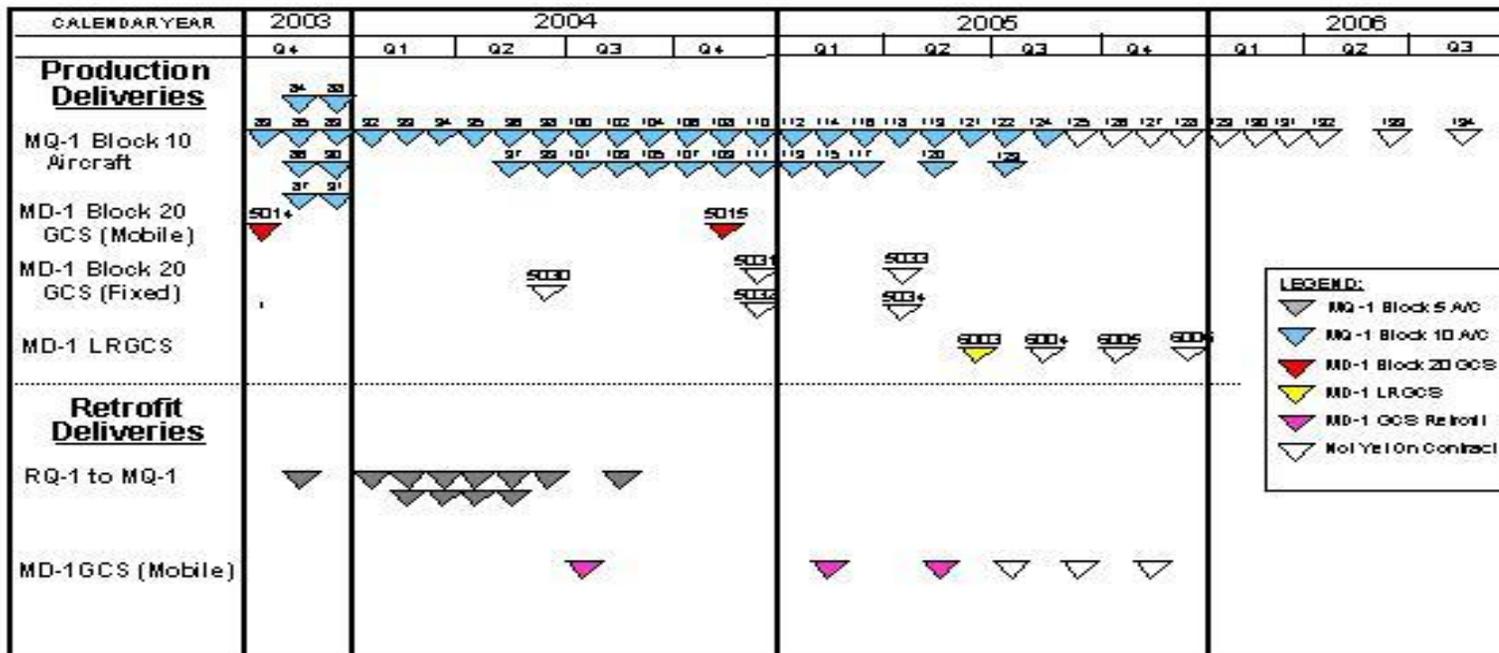
BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0305205F Endurance Unmanned
Aerial Vehicles

PROJECT NUMBER AND TITLE
4755 Predator



MQ-1 Predator Timeline



FY	2003	2004	2005	2006	2007	2008	2009
MQ-1 Aircraft Buys (FY05 APOM)	22	10	7	7	7	7	7

UNCLASSIFIED

Exhibit R-4a, RDT&E Schedule Detail	DATE February 2004
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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles	PROJECT NUMBER AND TITLE 4755 Predator
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	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) <u>Schedule Profile</u>			
(U) Delivery of first production weaponized MQ-1	2Q		
(U) MQ-9 Spiral 0 Complete	2Q		
(U) MQ-9 Spiral 1 Demonstration		4Q	

Exhibit R-2a, RDT&E Project Justification

DATE

February 2004

BUDGET ACTIVITY 07 Operational System Development				PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles			PROJECT NUMBER AND TITLE 4799 Global Hawk		
Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
4799 Global Hawk	332.211	360.818	0.000	0.000	0.000	0.000	0.000	0.000	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

In FY04 and prior years all Global Hawk funding was in PE 0305205F, project 674799. In FY05 and beyond all Global Hawk funding has been moved to PE 0305220F, project 675144.

(U) **A. Mission Description and Budget Item Justification**

The Global Hawk Program consists of the RQ-4A and RQ-4B Unmanned Aerial Vehicles (UAVs), the AN/MSQ-131 Ground Segment (GS), and the Support System. The Global Hawk System is designed to provide continuous, all-weather, day/night, wide area intelligence, surveillance and reconnaissance (ISR) and includes the interfaces with other theater systems required to support joint tactical warfighters at various levels of command. The aircraft is a remotely-piloted, high altitude, long endurance unmanned aircraft designed as an ISR platform. The Air Force has initiated Engineering and Manufacturing Development (EMD), using a spiral approach to incorporate improvements to the aircraft, ground station, communication system, and payloads. The Air Force will integrate Global Hawk into the Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) architecture, national and international airspace systems, and service combat environments. To support this, the Air Force will participate in demonstrations, exercises and conduct experiments with Global Hawk that will explore its use in other mission areas and activities.

This program is Budget Activity 7, Operational Systems Development because it involves Air Force R&D to field a highly capable operational system and provide essential operational capabilities.

(U) **B. Accomplishments/Planned Program (\$ in Millions)**

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) ACCOMPLISHMENTS / PLANNED PROGRAM	0.000	0.000	
(U) Continue spiral development and related tasks, to include spiral development of aircraft, payloads, ground stations, and support segment to satisfy ORD requirements.	224.135		
(U) Provide government test and evaluation support at Edwards AFB	8.031	10.825	
(U) Provide government program management, mission support, and other related costs.	8.421		
(U) Demonstrations and exercises	1.624	5.000	
(U) Added to FY03 program per Congressional plus-up for Advanced Payload Development and Support (\$84,000 *), Global Hawk Producibility Initiatives (\$5,000), and Global Hawk Lithium Batteries (\$1,000).	90.000		
(U) Continue spiral development and related tasks, including aircraft (\$93M), payloads (\$30M), ground stations (\$26M), support segment (\$26M), program management, test and systems engineering (\$55M) to satisfy ORD requirements.		229.794	
(U) Provide government program management, mission support, and other related costs.		9.233	
(U) MP-RTIP sensor adaptation		30.992	
(U) Continue advanced ASIP payload modernization for Global Hawk and U-2 (Global Hawk ASIP platform integration		68.674	

Project 4799

R-1 Shopping List - Item No. 194-9 of 194-13

Exhibit R-2a (PE 0305205F)

Exhibit R-2a, RDT&E Project Justification

DATE
February 2004

BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles	PROJECT NUMBER AND TITLE 4799 Global Hawk
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is in Spiral 3 and platform integration for U-2 is in PE 0305202F).

(U) Congressional Plus Up for Advanced Imagery Architecture and Lithium Batteries	6.300	
(U) Total Cost	332.211	360.818 0.000

*In FY03, \$66.0M continues advanced Signals Intelligence (SIGINT) payload modernization for the Global Hawk and U-2 and \$18.0M continues Imagery Intelligence (IMINT) payload modernization.

(U) C. Other Program Funding Summary (\$ in Millions)

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</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	332.211	360.818							TBD
(U) Other APPN									
(U) AF MILCON	11.682	22.300							TBD
(U) AF O&M	17.544	13.268							TBD
(U) AF MILPERS	5.066	13.105							TBD
(U) Aircraft Procurement, APPN 10									
AF (HAE UAV)	181.073	251.035							TBD
(U) Aircraft Procurement APPN 11									
AF (HAE UAV)									TBD
(U) Other Procurement, 3080 (HAE									
UAV)	0.639	0.192							TBD

All Other Program Funding is within PE 0305205F up through FY04. Funding is in PE 0305220F in FY05 and out.

(U) D. Acquisition Strategy

Global Hawk program uses Evolutionary Acquisition with an emphasis on Spiral Development strategy. This strategy provides the warfighter with a near term, combat capability with increased, time phased capability improvements as soon as technology and risk achieve satisfactory levels. The initial system capability evolved from a successful technology demonstration program and was refined in development Spiral 1. Subsequent development spirals incorporate additional capabilities into the system design. The Spiral Development strategy supports current operational requirements and can be updated as requirements evolve. The production program incorporates these incremental capability improvements into a series of production lots. These production lots deliver the increasingly capable Global Hawk system.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis

DATE
February 2004

BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE				
07 Operational System Development				0305205F Endurance Unmanned Aerial Vehicles				4799 Global Hawk				
(U) Cost Categories	<u>Contract Method</u>	<u>Performing Activity &</u>	<u>Total</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>Cost to</u>	<u>Total</u>	<u>Target</u>
(Tailor to WBS, or System/Item Requirements)	<u>& Type</u>	<u>Location</u>	<u>Prior to FY</u>	<u>2003</u>	<u>2003</u>	<u>2004</u>	<u>2004</u>	<u>2005</u>	<u>2005</u>	<u>Complete</u>	<u>Cost</u>	<u>Value of</u>
(\$ in Millions)			<u>2003</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>			<u>Contract</u>
			<u>Cost</u>		<u>Date</u>		<u>Date</u>		<u>Date</u>			
(U) <u>Product Development</u>												
NGUMS	SS CPAF/CPFF	Rancho Bernardo, CA	262.992	219.912	Nov-02	231.091	Dec-03			Continuing	TBD	
ASC Reconnaissance SPO	SS: CPAF	San Jose, CA	28.000	60.700	Feb-03	55.416	Feb-04			Continuing	TBD	
ASC Reconnaissance SPO	SS: CPAF	Falls Church, VA		0.000		5.250	Feb-04			Continuing	TBD	
ASC Reconnaissance SPO	SS: CPAF	Denver, CO		0.000		5.250	Feb-04			Continuing	TBD	
ESC	SS: CPAF	Melbourne, FL	0.000	10.960	Feb-03	30.992	Mar-04			Continuing	TBD	
ASC Reconnaissance SPO	SS:CPFF	Various		15.775	Feb-03						15.775	
Subtotal Product Development			290.992	307.347		327.999		0.000		Continuing	TBD	0.000
Remarks:												
(U) <u>Support</u>												
NGUMS	SS/CP	Rancho Bernardo, CA	12.088	0.430	Feb-03	1.306	Jan-04			Continuing	TBD	
SAIC/DDE	MIPR	Huntsville, AL		1.700	Oct-02						1.700	
Other Govt Orgs	Various			4.658	Jan-03	4.109	Nov-03			Continuing	TBD	
											0.000	
Subtotal Support			12.088	6.788		5.415		0.000		Continuing	TBD	0.000
Remarks:												
(U) <u>Test & Evaluation</u>												
AFFTC	PO	Edwards AFB	12.982	8.991	Dec-02	10.800	Dec-03			Continuing	TBD	
Demos and Exercise support	PO	various	12.937	0.664	Nov-02	5.025	Nov-03			Continuing	TBD	
Subtotal Test & Evaluation			25.919	9.655		15.825		0.000		Continuing	TBD	0.000
Remarks:												
(U) <u>Management</u>												
MTC	PR	Dayton, OH		5.893	Dec-02	2.325	Dec-03			Continuing	TBD	
HJ Ford	PR	Dayton, OH			Nov-02	2.500	Nov-03			Continuing	TBD	
INNOLOG	PR	Dayton, OH				2.500	Nov-03			Continuing	TBD	
Other Govt Orgs	PR	Various		2.528		4.254	Jan-04			Continuing	TBD	
Subtotal Management			0.000	8.421		11.579		0.000		Continuing	TBD	0.000
Remarks:												
(U) Total Cost			328.999	332.211		360.818		0.000		Continuing	TBD	0.000

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2004

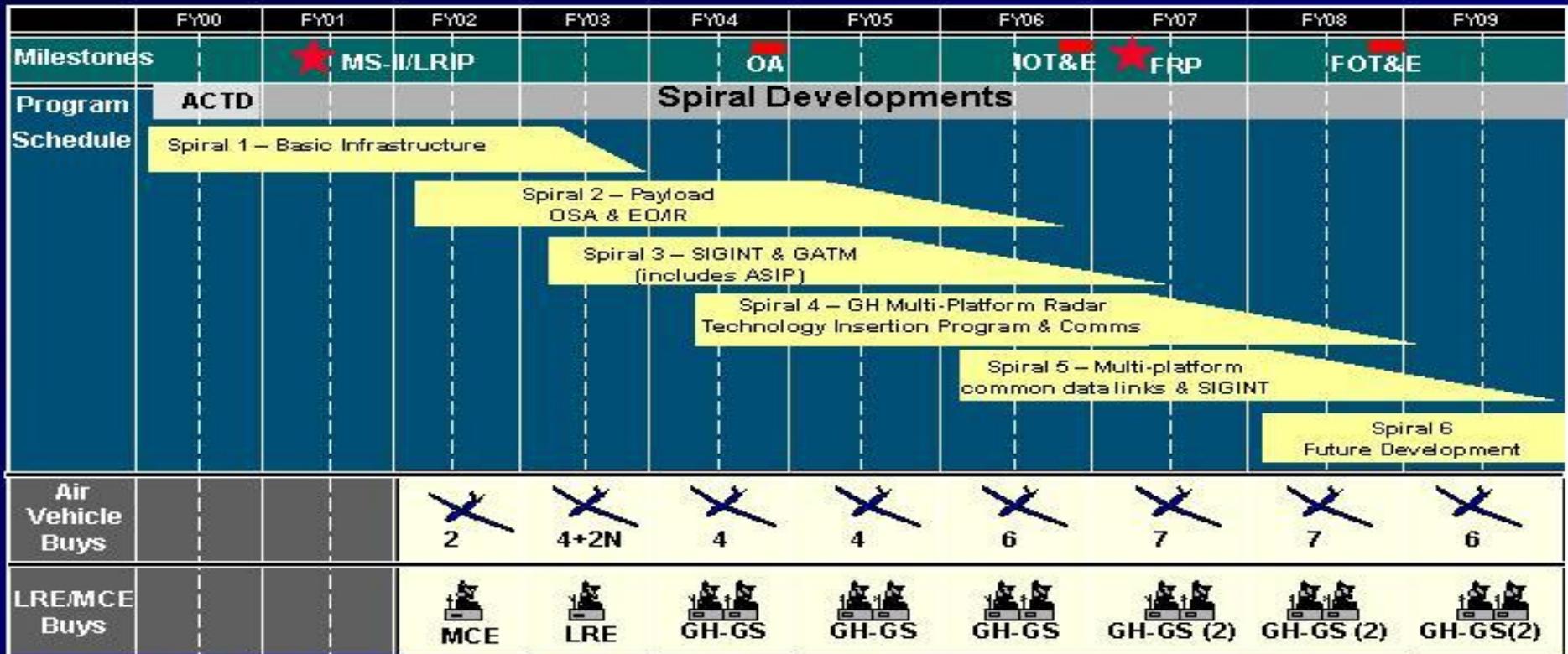
BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0305205F Endurance Unmanned
Aerial Vehicles

PROJECT NUMBER AND TITLE
4799 Global Hawk



Development/Production Program



MS-II/LRIP – Milestone II / Low Rate Initial Production

OA – Operational Assessment

FRP – Full Rate Production

I/FOT&E – Initial / Follow-on Operational Test & Evaluation

MCE – Msn Control Element

LRE – Launch Recovery Element

GH-GS – GH Ground Station

(MCE & LRE)

UNCLASSIFIED

Exhibit R-4a, RDT&E Schedule Detail

DATE

February 2004

BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0305205F Endurance Unmanned Aerial Vehicles	PROJECT NUMBER AND TITLE 4799 Global Hawk
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(U) Schedule Profile	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Pre-EMD Development Complete	1Q		
(U) Delivery of aircraft #7	2Q		
(U) Canadian Overflight		3Q	
(U) Global Hawk SOUTHCOM demo		3Q	
(U) Start EMD System Testing	3Q		
(U) Award EMD Spiral 3 contract	2Q		
(U) Global Hawk/German ELINT Flight Demonstration		1Q	
(U) Delivery of AF1 (First AF production aircraft)	4Q		
(U) EMD Spiral 1 Complete		2Q	
(U) Delivery of AF2		1Q	
(U) Award EMD Spiral 4A contract		2Q	
(U) Operational Assessment		4Q	