

UNCLASSIFIED

PE NUMBER: 0603333F
 PE TITLE: Unmanned Air Vehicle Dev/Demo

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2004
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BUDGET ACTIVITY 03 Advanced Technology Development (ATD)	PE NUMBER AND TITLE 0603333F Unmanned Air Vehicle Dev/Demo
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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	16.719	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
5067 Unmanned Combat Air Vehicle Tech Demo	16.719	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

(U) A. Mission Description and Budget Item Justification

This program will develop and demonstrate advanced unarmed, unmanned aerial vehicle (UAV) and unmanned combat air vehicle (UCAV) technologies. Flight testing to demonstrate integration of critical technologies, such as autonomous operations, inter-vehicle communications, and multi-vehicle flight operations, will improve the performance and supportability of UAVs and UCAVs.

This program is in Budget Activity 3, Advanced Development, since it develops and demonstrates technologies for new unarmed, unmanned aerial vehicles and UCAVs that have command, control, communications, computers, and intelligence capabilities and address warfighter needs.

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

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Previous President's Budget	17.608	0.000	0.000
(U) Current PBR/President's Budget	16.719	0.000	0.000
(U) Total Adjustments	-0.889	0.000	
(U) Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings	-0.329		
SBIR/STTR Transfer	-0.560		

(U) Significant Program Changes:

In FY 2004, this effort transfers into PE 0604731F, Unmanned Combat Air Vehicle.

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Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 03 Advanced Technology Development (ATD)				PE NUMBER AND TITLE 0603333F Unmanned Air Vehicle Dev/Demo			PROJECT NUMBER AND TITLE 5067 Unmanned Combat Air Vehicle Tech Demo		
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
5067 Unmanned Combat Air Vehicle Tech Demo	16.719	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

This program will develop and demonstrate advanced unarmed, unmanned aerial vehicle (UAV) and unmanned combat air vehicle (UCAV) technologies. Flight testing to demonstrate integration of critical technologies, such as autonomous operations, inter-vehicle communications, and multi-vehicle flight operations, will improve the performance and supportability of UAVs and UCAVs.

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

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Completed development and integration of critical technologies that provide for autonomous operations, inter-vehicle communications, and multi-vehicle flight operation. Completed an end-to-end demonstration of the mission utility of UCAV.	9.980	0.000	0.000
(U) Completed the development and demonstration of technologies to support an affordable UCAV unit recurring flyaway goal in a Command, Control, Communications, Computer, Intelligence, Surveillance, and Reconnaissance (C4ISR) data-rich environment as part of an integrated Command, Control, and Communications network. Demonstrated multi-vehicle flight operations, including escort formations, collision avoidance, auto routing, and dynamic re-tasking among others. Demonstrated multiple re-planned weapons drops.	2.699	0.000	0.000
(U) Completed development and demonstration of both electro-optical and radio frequency technologies on the UCAV.	1.897	0.000	0.000
(U) Completed human systems technology support by demonstrating remote operator control/interface that can extend the capability to effectively and affordably perform the 21st century missions of defense suppression and tactical attack.	1.095	0.000	0.000
(U) Completed integration of miniature munition concepts with UCAV and complete UCAV flight test with miniature munition concepts.	1.048	0.000	0.000
(U) Total Cost	16.719	0.000	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</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) PE 0602202F, Human Effectiveness.									

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY

03 Advanced Technology Development (ATD)

PE NUMBER AND TITLE

**0603333F Unmanned Air Vehicle
Dev/Demo**

PROJECT NUMBER AND TITLE

**5067 Unmanned Combat Air Vehicle
Tech Demo****(U) C. Other Program Funding Summary (\$ in Millions)**

- (U) PE 0602201F, Aerospace Vehicle Technologies.
- (U) PE 0603203F, Advanced Aerospace Sensors.
- (U) PE 0603601F, Conventional Weapons.
- (U) PE 0603789F, C3I Advanced Development.
- (U) PE 0604731F, Unmanned Combat Air Vehicle.
- (U) PE 0602702E, Tactical Technology.
- (U) PE 0603285E, Advanced Aerospace Systems.
- (U) PE 0603762E, Sensor and Guidance Technology.
This project has been coordinated through the
- (U) Reliance process to harmonize efforts and eliminate duplication.

(U) D. Acquisition Strategy

Not Applicable.