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

Exhibit R-2, RDT&E Budget Item Justification

DATE: February 2005

BUDGET ACTIVITY: 03 Advanced Technology Development (ATD)

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

	Cost ($ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
	Total Program Element (PE) Cost	0.000	8.425	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5067	Unmanned Combat Air Vehicle Tech Demo	0.000	8.425	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The Air Force transferred efforts in this program to PE 0604731F in FY 2003. However, in FY 2005, Congress added $8.4 million for Protector Unmanned Air Vehicle for AC-130 Aircraft.

(U) A. Mission Description and Budget Item Justification

Prior to FY 2004 , this project developed, demonstrated, and transitioned unmanned combat air vehicle (UCAV) technologies. This program is in the Budget Activity 3, Advanced Technology Development, since it develops and demonstrates technologies for exhibiting new systems development that have military utility and address warfighter needs.

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

		FY 2004	FY 2005	FY 2006	FY 2007
(U)	Previous President's Budget	0.000	0.000	0.000	0.000
(U)	Current PBR/President's Budget	0.000	8.425		
(U)	Total Adjustments	0.000	8.425		
(U)	Congressional Program Reductions				
	Congressional Rescissions				
	Congressional Increases		8.425		
	Reprogrammings				
	SBIR/STTR Transfer				
(U)	Significant Program Changes:				

Exhibit R-2a, RDT&E Project Justification

DATE: February 2005

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 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5067	Unmanned Combat Air Vehicle Tech Demo	0.000	8.425	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

Prior to FY 2004 , this project developed, demonstrated, and transitioned unmanned combat air vehicle (UCAV) technologies. This program is in the Budget Activity 3, Advanced Technology Development, since it develops and demonstrates technologies for exhibiting new systems development that have military utility and address warfighter needs.

(U) B. Accomplishments/Planned Program ($ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
(U) CONGRESSIONAL ADD: Protector unmanned air vehicle (UAV) for AC-130 aircraft.	0.000	8.425	0.000	0.000
(U) In FY 2004: Not Applicable.				
(U) In FY 2005: Initiate Congressionally-directed effort for the Protector UAV for AC-130 aircraft.				
(U) In FY 2006: Not Applicable.				
(U) In FY 2007: Not Applicable.				
(U) Total Cost	0.000	8.425	0.000	0.000

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

	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
(U) PE 0603313A, Missle and Rocket Advaced Technology. This project has been coordinated through the										
(U) Reliance process to harmonize efforts and eliminate duplication.										

(U) D. Acquisition Strategy

Not Applicable.

PE NUMBER: 0603400F
PE TITLE: J-UCAS Joint Program Office

Exhibit R-2, RDT&E Budget Item Justification

DATE: February 2005

BUDGET ACTIVITY: 03 Advanced Technology Development (ATD)

PE NUMBER AND TITLE: 0603400F J-UCAS Joint Program Office

	Cost ($ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
	Total Program Element (PE) Cost	0.000	0.000	77.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5067	Unmanned Combat Air Vehicle Tech Demo	0.000	0.000	77.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: In FY06, the Joint Unmanned Combat Air Systems (J-UCAS) program was transferred from the Defense Advanced Research Projects Agency (DARPA) to be a joint program led by the Air Force with Navy representation. The program is undergoing a restructure and will realign the adjusted resources in the next budget cycle to advance the J-UCAS program. Funding is being realigned from PE 0603400D8Z to PE 0603400F.

(U) A. Mission Description and Budget Item Justification

The Joint Unmanned Combat Air Systems (J-UCAS) program is a joint effort to develop and demonstrate unmanned combat capabilities for high-threat Suppression of Enemy of Air Defense (SEAD), Information Operations/ Electronic Attack, Persistent Intelligence, Surveillance, Reconnaissance (ISR), and persistent ground attack missions within the emerging global command and control architecture for the warfighting community. The program is focused on demonstrating capabilities that support both Services and enable an operational system development decision by the end of the decade.

FY04 program guidance established the J-UCAS Program Office and funding for both Air Force (PEs 0207256F and 0604731F) and Navy (PE 0603114N) programs. Efforts previously conducted under the DARPA/Air Force and DARPA/Navy programs were combined into the J-UCAS program. FY05 program guidance directed FY05 and outyear funding for DARPA and both Services be transferred into Defense-wide Program Elements (0603400D8Z and 0604400D8Z). FY06 program guidance directed a reduction of funds in FY06-FY09, an increase in FY10/11, and realignment of funds from OSD to Air Force (PEs 0603400F and 0604400F).

The J-UCAS program combines and expands the efforts that were previously conducted under the DARPA/Air Force Unmanned Combat Air Vehicle (UCAV) program and the DARPA/Navy Naval UCAV (UCAV-N) program. Although these efforts were targeted towards service-specific needs, the Department recognized the potential for significant synergy by combining the programs. The accomplishments and ongoing efforts of the X-45A technology demonstrator, as well as the development of the X-47A demonstrator, are reducing the risk of the "operationalized" demonstration system being developed for a joint early operational assessment (OA) planned for the FY07-10 timeframe. The J-UCAS concept incorporates the next generation family of demonstrator air vehicles, together with common subsystems (e.g. sensors, payloads, communications) and a Common Operating System to achieve the system's diverse mission functionality. These common system elements will maximize mission flexibility and operational versatility while reducing overall costs and maintaining schedule toward a joint early OA.

This is a BA 03 program, Advanced Technology Development, for completion of demonstrations of the X-45A technology demonstrator, continued development of the Boeing and Northrop Grumman demonstrator programs, and the development of common systems technology elements.