PE NUMBER: 0207256F

PE TITLE: Joint Unmanned Combat Air System (J-UCAS)

Exhibit R-2, RDT&E Budget Item Justification							DATE	DATE February 2004		
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)					PE NUMBER AND 1207256F Joir		Combat Air	System (J-U	CAS)	
	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	0.000	2.372	2.911	2.865	2.860	0.000	0.396	Continuing	TBD
5118	Joint Unmanned Combat Air Systems. (J-UCAS)	0.000	2.372	2.911	2.865	2.860	0.000	0.396	Continuing	TBD

Note: FY04 program guidance established the Joint Unmanned Combat Air Systems (J-UCAS) Program Office and funding for both Air Force and Navy programs. Efforts previously conducted under the DARPA/Air Force Unmanned Combat Air Vehicle (UCAV) program and the DARPA/Navy Naval UCAV (UCAV-N) program have been combined into the J-UCAS program. FY05 program guidance directed FY05 and outyear funding for DARPA and both Services be transferred into a Defense-wide Program Element.

(U) A. Mission Description and Budget Item Justification

The Joint Unmanned Combat Air Systems (J-UCAS) program is a joint DARPA, Air Force, and Navy effort to develop and demonstrate unmanned combat capabilities for high-threat Suppression of Enemy of Air Defense (SEAD); Intelligence, Surveillance, and Reconnaissance (ISR); Electronic Attack (EA); and related strike missions within the emerging global command and control architecture.

The J-UCAS program combines 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, will reduce the risk of the system being developed for the operational assessment. The J-UCAS concept incorporates the Boeing X-45C/CN and Northrop Grumman X-47B air vehicles, together with a common architecture and subsystems (e.g. sensors, communications, and command & control software). These common system elements will maximize system flexibility and operational versatility, while reducing overall costs and maintaining schedule toward an Early Operational Assessment planned for the FY07-09 timeframe.

The J-UCAS Office integrates DARPA, Air Force, and Navy personnel, operating in close coordination with Service users and other components. The program is focused on achieving an Early Operational Assessment that supports both Services and enables an operational system development decision by the end of the decade.

R-1 Shopping List - Item No. 94-2 of 94-8

Exhibit R-2, RDT&E Budget Item Justification DATE Fobruary 2004						
BUDO	GET ACTIVITY		February 2004			
	ystem Development and Demonstration (SDD)	Air Systen	n (J-UCAS)			
U)	B. Program Change Summary (\$ in Millions)					
		FY 2003		FY 2004	FY 2005	
J)	Previous President's Budget	0.000		4.892	4.924	
J)	Current PBR/President's Budget	0.000		2.372	2.911	
J)	Total Adjustments	0.000		-2.520		
J)	Congressional Program Reductions			-2.500		
	Congressional Rescissions			-0.020		
	Congressional Increases					
	Reprogrammings SBIR/STTR Transfer					
T\						
J)	Significant Program Changes: Efforts that were previously conducted under the DARPA/Air Force U	I I I I I I I I I I I I I I I I I I I	DADDA AI	N 1HCAN	TICALI NI	
		Shopping List - Item No. 94-3 of 94-8			R-2 (PE 0207256	

Exhibit R-2a, RDT&E Project Justification								DATE	DATE February 2004		
05 System Development and Demonstration (SDD)			0207256F Joint Unmanned Combat			PROJECT NUMBER AND TITLE 5118 Joint Unmanned Combat Air Systems. (J-UCAS)					
	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	
5118	Joint Unmanned Combat Air Systems. (J-UCAS)	0.000	2.372	2.91		2.860	0.000		Continuing	TBD	
	Quantity of RDT&E Articles	0	0	C	0	0	0	0			

Note: FY04 program guidance established the Joint Unmanned Combat Air Systems (J-UCAS) Program Office and funding for both Air Force and Navy programs. Efforts previously conducted under the DARPA/Air Force Unmanned Combat Air Vehicle (UCAV) program and the DARPA/Navy Naval UCAV (UCAV-N) program have been combined into the J-UCAS program. FY05 program guidance directed FY05 and outyear funding for DARPA and both Services be transferred into a Defense-wide Program Element.

(U) A. Mission Description and Budget Item Justification

Project 5118

The Joint Unmanned Combat Air Systems (J-UCAS) program is a joint DARPA, Air Force, and Navy effort to develop and demonstrate unmanned combat capabilities for high-threat Suppression of Enemy of Air Defense (SEAD); Intelligence, Surveillance, and Reconnaissance (ISR); Electronic Attack (EA); and related strike missions within the emerging global command and control architecture.

The J-UCAS program combines 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, will reduce the risk of the system being developed for the operational assessment. The J-UCAS concept incorporates the Boeing X-45C/CN and Northrop Grumman X-47B air vehicles, together with a common architecture and subsystems (e.g. sensors, communications, and command & control software). These common system elements will maximize system flexibility and operational versatility, while reducing overall costs and maintaining schedule toward an Early Operational Assessment planned for the FY07-09 timeframe.

The J-UCAS Office integrates DARPA, Air Force, and Navy personnel, operating in close coordination with Service users and other components. The program is focused on achieving an Early Operational Assessment that supports both Services and enables an operational system development decision by the end of the decade.

(U)	B. Accomplishments/Planned Program (\$ in Millions)	FY 2003	FY 2004	FY 2005
(U)) No Activity	0.000		
(U)	Accomplishments/Planned Program		0.000	0.000
(U)	Other Government Cost		2.372	2.911
	-Mission support of the Joint Program Office, travel, computer costs, misc contracts, etc.			
(U)) Total Cost	0.000	2.372	2.911

R-1 Shopping List - Item No. 94-4 of 94-8

	Exhibit R-2a, RDT&E Project Justification								DATE February 2004		
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)				0207256F Joint Unmanned Combat			PROJECT NUMBER AND TITLE 5118 Joint Unmanned Combat Air Systems. (J-UCAS)				
(U)	(U) C. Other Program Funding Summary (\$ in Millions)										
(U)	Navy RDT&E (PE0603111N)	0.000	2.350	0.000	0.000	0.000	0.000	0.000		TBD	
(U)	Aircraft Procurement (PE0207255F)	0.000	0.000	0.000	0.000	0.000	3.377	1.537		TBD	
(U)	Defense-wide RDT&E (PE0603400D8Z)	0.000	0.000	285.000	77.900	0.000	0.000	0.000		TBD	
(U)	Defense-wide RDT&E (PE0604400D8Z)	0.000	0.000	423.447	668.356	380.800	1044.000	985.000	Continuing	TBD	
	Note: FY04 Navy funding in PE's 0604730N and 0604731N has been transfered into PE 0603114N.										

(U) D. Acquisition Strategy

Project 5118 R-1 Shopping List - Item No. 94-5 of 94-8 Exhibit R-2a (PE 0207256F)

⁽U) The Joint Unmanned Combat Air Systems (J-UCAS) program is a joint DARPA, Air Force, and Navy effort to develop and demonstrate unmanned combat capabilities for high-threat Suppression of Enemy of Air Defense (SEAD); Intelligence, Surveillance, and Reconnaissance (ISR); Electronic Attack (EA); and related strike missions within the emerging global command and control architecture.

	Exhibit R-3, RDT&E Project Cost	Analysis	5			DATE Februa	ry 200)4	
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)			0207256F Joint Unmanned Combat			PROJECT NUMBER AND TITLE 5118 Joint Unmanned Combat Air Systems. (J-UCAS)			
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions) (U) Product Development	Contract Method Performing Activity & Location	Total Prior to FY 2003 Cost	FY FY 2003 2003 Cost Award Date	FY FY 2004 2004 Cost Award Date	<u>FY</u> 2005 <u>Cost</u>	FY Cost to 2005 Complete Award Date		Target Value of Contract	
Subtotal Product Development Remarks: (U) <u>Support</u>		0.000	0.000	0.000	0.000	0.000	0.000		
Various Subtotal Support Remarks: (U) Test & Evaluation		0.000	0.000	2.372 2.372	2.911 2.911	Continuing Continuing	TBD TBD		
Subtotal Test & Evaluation Remarks: (U) Management		0.000	0.000	0.000	0.000	0.000	0.000 0.000		
Subtotal Management Remarks:		0.000	0.000	0.000	0.000	0.000	0.000		
(U) Total Cost		0.000	0.000	2.372	2.911	Continuing	TBD	0.000	
Project 5118	R-1 Shopping List	Itam No. 04 6	S of 94.8			Exhibit R	-3 (DE 01	207256E\	

Exhibit R-4, RDT8	DATE February 2004		
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0207256F Joint Unmanned Combat Air System (J-UCAS)	5118 Jo	T NUMBER AND TITLE pint Unmanned Combat Air ns. (J-UCAS)
Project 5118	R-1 Shopping List - Item No. 94-7 of 94-8		Eyhibit R-4 (PE 0207256F)

Exhibit R-4a,	DATE February 2004	
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0207256F Joint Unmanned Combat Air System (J-UCAS)	PROJECT NUMBER AND TITLE 5118 Joint Unmanned Combat Air Systems. (J-UCAS)
(U) Schedule Profile (U) Stand up Joint Program Office	FY 2003	FY 2004 1Q
Project 5119	P. 1. Shopping List. Itom No. 04.8 of 04.9	Evhihit P 42 (PE 0207256E)