	RDT&E BUDGET ITEM	DATE	DATE <b>February 2003</b>									
BUDGET ACTIVITY  07 - Operational System Development			PE NUMBER AND TITLE 0207445F FIGHTER TACTICAL DATA LINK									
	COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost	
5043	Fighter Tactical Data Link	0	38,168	42,877	67,617	41,419	42,032	39,763	48,149	Continuing	TBD	
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0	

On 17 April, 2001 the Chief of Staff of the Air Force (CSAF) approved the management of the Tactical Data Links (TDL) as a Major System Acquisition Program. In order to effectively manage the program, the Tactical Data Links System Program Office (SPO) was stood up at Electronic Systems Center (ESC), Hanscom AFB, MA on 29 May, 2001. Funding from platform PEs was transferred to the appropriate TDL platform PE. Four new program elements were created in FY03 to consolidate the platform integration funding. This includes PE 0207445F, Fighter Tactical Data Link; PE 0207446F, Bomber Tactical Data Link; PE 0207448F, Command, Control, Intelligence, Surveillance, and Reconnaissance (C2ISR) Tactical Data Link; and PE 0401839F, Airlift/Other Tactical Data Link.

#### (U) A. Mission Description

Tactical Data Links (TDL) are used in a combat environment to exchange information such as messages, data, radar tracks, target information, platform status, imagery, and command assignments. TDLs provide interoperability, local and global connectivity, and situational awareness to the user when operating under rapidly changing operational conditions. TDLs are used by the Air Force, Army, Navy, and Marine Corps theater Command and Control (C2) elements, weapons platforms, and sensors. TDLs include but are not limited to: Link 16, Link 11, Situational Awareness Data Link (SADL), and Variable Message Format (VMF).

This effort adds tactical data link capability to the A/OA-10 aircraft. The A/OA-10 upgrade is required to enhance its ability to support Close Air Support (CAS) and interdiction mission requirements. This effort also adds Link 16 transmit capability to the F/A-22 to support air-to-air and air-to-ground mission requirements and keeps the F-117 current and compatible with the USAF Global Strike Task Force (GSTF) concept through 2020+. Link 16 provides a jam-resistant, secure digital data transfer network capability with a standardized waveform and data format allowing intra and inter-flight communications. Link 16 will increase mission effectiveness, provide situational awareness, provide positive identification of aircraft in the network, correlate on and off-board sensor data sharing target and threat information. Link 16 efforts include incorporating MIL-STD-6016 additions and changes, and applicable Interface Change Proposals (ICPs), and interoperability certification testing with the Joint Interoperability Test Center (JITC).

#### (U) FY 2002 (\$ in Thousands)

(U) \$0 Accomplishments/Planned Programs

(U) \$0 No Activity

(U) \$0 Total

Project 5043 Page 1 of 5 Pages Exhibit R-2 (PE 0207445F)

	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)  Pate February 2003										
•	GET ACTIVITY Operational System Development	PE NUMBER AND TITLE 0207445F FIGHTER	TACTICAL DA	TA LINK	PROJECT <b>5043</b>						
(U)	A. Mission Description Continued										
(U) (U) (U) (U) (U) (U)	FY 2003 (\$ in Thousands)  \$0 Accomplishments/Planned Programs  \$29 Perform A-10 Tactical Data Link studies  \$35,139 Integrate F/A-22 Link 16 transmit capability  \$3,000 Support F/A-22 Link 16 test activities.  \$38,168 Total										
(U) (U) (U) (U) (U) (U)	FY 2004 (\$ in Thousands)  \$0	pport									
(U)	B. Budget Activity Justification Fighter Tactical Data Link program is in Budget Activity 7, Operation systems.	onal System Development, since it supp	ports integration of ta	actical data links into	operational						
( <b>U</b> )	C. Program Change Summary (\$ in Thousands)										
(U) (U) (U)	Previous President's Budget Appropriated Value Adjustments to Appropriated Value a. Congressional/General Reductions b. Small Business Innovative Research	FY 2002	FY 2003 39,034 39,034 -481	<u>FY 2004</u> 38,937	<u>Total Cost</u> TBD						
(U) (U)	c. Omnibus or Other Above Threshold Reprogram d. Below Threshold Reprogram e. Rescissions Adjustments to Budget Years Since FY 2003 PBR Current Budget Submit/FY 2004 PBR		-385 38,168	3,940 42,877	TBD						
Р	roject 5043	Page 2 of 5 Pages		Exhibit R-	2 (PE 0207445F)						

<b>07 - (</b> (U) (U)	Operational System E  C. Program Change Summa  Significant Program Changes:	ary (\$ in Tho				NUMBER ANI	) TITLE				
(U)	Significant Program Changes:	•	usanda) Can		UZ	07445F I	FIGHTER	TACTICA	L DATA	LINK	PROJECT <b>5043</b>
, ,			usanus) Con	tinued							
(U) <u>I</u>											
	D. Other Program Funding S	Summary (\$	in Thousand	<u>ls)</u>							
		FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to	Total Cost
		<u>Actual</u>	<b>Estimate</b>	<b>Complete</b>							
(U) A	AF RDT&E										
(U) 2	27434 (Link 16 Sup & Sus)	0	50,073	58,783	190,001	257,665	247,322	177,451	177,624		
(U) 2	27446 (Bomber TDL)	0	0	12,959	120,571	166,535	89,009	0	0		
(U) 2	27448 (C2ISR TDL)	0	0	26,927	26,713	7,254	745	0	0		
(U) 4	41839 (Airlift TDL)	0	0	0	67,199	85,030	150,094	42,808	42,457		
(U) 6	64754 (TDL Integration)	18,138	0	14,675	24,720	26,833	27,079	39,950	28,544		
(U) (	Other APPN										
(U) F	Procurement (3010)										
(U) 2	27434 (Link 16 Sup &Sus)	0	36,013	40	0	0	0	0	0		
(U) 2	27445 (Fighter TDL)	0	0	31,635	98,076	122,338	94,153	44,195	32,518		
(U) 2	27446 (Bomber TDL)	0	0	0	86,125	48,254	33,185	30,570	28,149		
(U) 2	27448 (C2ISR TDL)	0	0	0	16,503	5,769	1,091	6,025	6,128		
(U) 4	41839 (Airlift TDL)	0	0	0	11,827	24,043	0	0	0		
(U) (	O&M (3400)										
(U) 2	27434 (Link 16 Sup & Sus)	10,143	11,494	13,482	16,535	21,401	23,521	24,696	22,753		
(U) (	Other Procurement (3080)										
(U) 2	27434 (Link 16 Sup & Sus)	0	0	0	1,744	9,602	21,202	2,785	2,829		
Т	E. Acquisition Strategy The Air Force Tactical Data Li and ensures that link 16 is proc	•	0				•	gration and i	nteroperabili	ty across all Air For	rce platforms
(U) <u>I</u>	F. Schedule Profile										
					]	FY 2002		FY 2	003	<u>FY</u> :	2004
Dro	oject 5043				Page 3 of	5 Pages				Exhibit R-2 (P	F 0207445F\

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE February 2003				
BUDGET ACTIVITY  OF - Operational System Development	PE NUMBER AND TITLE 0207445F FIGHTER TACTICAL DA							TA LI	-			PROJECT <b>5043</b>	
U) F. Schedule Profile Continued													
	1	<u>FY 2</u> 2	2 <u>002</u> 3	4	1	<u>FY :</u> 2	2 <u>003</u> 3	4	1	<u>FY</u> 2	2 <u>004</u> 3	4	
U) A-10 Tactical Data Link Studies							X				X		
<ul><li>U) F-22 Link 16 Transmit Integration</li><li>U) F-22 Link 16 test support</li></ul>						X X	X X	X X		X X	X X	X X	
0) 1-22 Link 10 test support						Λ	Λ	Λ		Λ	Λ	Λ	
Project 5043	Pag	ge 4 of 5 P	ages						Exhibi	t R-2 (P	E 02074	145F)	

	RDT&E PROG	RAM ELE	MENT/P	ROJECT C	OST BE	REAKDO	DATE February 2003				
	GET ACTIVITY  Operational System	Developme	nt			ER AND TITLE 15F FIGHT	ER TACT	ICAL DAT	A LINK	-	PROJECT <b>5043</b>
(U)	A. Project Cost Breakdown	(\$ in Thousan	<u>ds</u> )					2002	EV 20	202	EV 2004
(II)	A 10 Tastisal Data Link						<u>FY</u>	<u>2002</u>	FY 20		FY 2004
(U)	A-10 Tactical Data Link		16 E/A 22 4							29	72
(U)	Requirements definition to in	-							35,1		39,805
(U)	Proposal preparation to support	ort development	and test activi	ities					3,0		3,000
(U)	Total								38,1	08	42,877
(U)	<b>B. Budget Acquisition Histo</b>	ory and Plannir	ng Informatio	n (\$ in Thousand	<u>s)</u>						
(U)	<b>Performing Organizations:</b>										
	Contractor or	Contract									
	Government	Method/Type	Award or	Performing	<b>Project</b>						
	Performing	or Funding	<b>Obligation</b>	<u>Activity</u>	<b>Office</b>	Total Prior	<b>Budget</b>	<b>Budget</b>	<b>Budget</b>	Budget to	<u>Total</u>
	Activity	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	to FY 2002	FY 2002	FY 2003	FY 2004	Complete	<u>Program</u>
	Product Development Organi	zations									
	Lockheed Martin Systems	CPAF	1QFY02					29	72	Continuing	TBD
	Integration (A-10 Digital Dat	a									
	Link)*										
	F/A-22 Link 16 Transmit**	TBD	2QFY03					35,389	39,795	Continuing	TBD
	Contractor Support	FFP	1QFY03					1,100	1,200	Continuing	TBD
	MITRE	FFP	1QFY03					1,300	1,400	Continuing	TBD
	*Funding to A-10 SPO via A		*Funding to F	/A-22 SPO via AF	Form 616.						
	Support and Management Or										
	Program Office	various	various					350	410	Continuing	TBD
	Test and Evaluation Organiza	ations									
						Total Prior	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	Budget to	<u>Total</u>
	Subtotals					to FY 2002	FY 2002	FY 2003	FY 2004	Complete	
	Subtotal Product Developmen							37,818	42,467	TBD	
	Subtotal Support and Manage							350	410	TBD	TBD
	Subtotal Test and Evaluation										
	Total Project							38,168	42,877	TBD	TBD
Р	roject 5043			Рао	e 5 of 5 Pag	res			Fxhil	oit R-3 (PE	0207445F)