RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)	DATE February 2003

BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0207446F Bomber Tactical Data Link	PROJECT 5041

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
5041 Bomber Tactical Data Link	0	0	12,959	120,571	166,535	89,009	0	0	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 Link 16 line-of-sight (LOS) and beyond line-of-sight (BLOS) datalink capabilities to the B1-B, B-2, and B-52s. Link 16 provides a jam-resistant, secure digital data transfer network capability with a standardized waveform and data format allowing LOS 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, and provide the datalink to accomplish time critical targeting and other mission update functions. The BLOS datalink capability works with Link 16 to extend the range beyond the LOS Link 16 network. 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 Program
(U) $0   No Activity
(U) $0   Total

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BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0207446F Bomber Tactical Data Link	PROJECT 5041

(U) A. Mission Description Continued

(U) FY 2003 ($ in Thousands)
(U) $0   Accomplishments/Planned Program
(U) $0   No Activity
(U) $0   Total

(U) FY 2004 ($ in Thousands)
(U) $0   Accomplishments/Planned Program
(U) $2,500   Contract for LOS Link 16 terminals and BLOS radios for B-1 development labs and aircraft.
(U) $2,000   Complete proposal preparation for contract award.
(U) $8,459   Integrate of B-1 LOS and BLOS datalink capability
(U) $12,959   Total

(U) B. Budget Activity Justification

Bomber Tactical Data Link program is in Budget Activity 7, Operational System Development, since it supports integration of tactical data links into operational systems.

(U) C. Program Change Summary ($ in Thousands)

	FY 2002	FY 2003	FY 2004	Total Cost
(U) Previous President's Budget	0	0	13,198	TBD
(U) Appropriated Value				
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions				
b. Small Business Innovative Research				
c. Omnibus or Other Above Threshold Reprogram				
d. Below Threshold Reprogram				
e. Rescissions				
(U) Adjustments to Budget Years Since FY 2003 PBR			-239	
(U) Current Budget Submit/FY 2004 PBR			12,959	TBD

(U) Significant Program Changes:
Not Applicable

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BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0207446F Bomber Tactical Data Link	PROJECT 5041

(U)   D. Other Program Funding Summary ($ in Thousands)

(U)	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
(U) AF RDT&E										
(U) 27434 (Link 16 Sup & Sus)	0	50,073	58,783	190,001	257,665	247,322	177,451	177,624		
(U) 27445 (Fighter TDL)	0	38,168	42,877	67,617	41,419	42,032	39,763	48,149		
(U) 27448 (C2ISR TDL)	0	0	26,927	26,713	7,254	745	0	0		
(U) 41839 (Airlift TDL)	0	0	0	67,199	85,030	150,094	42,808	42,457		
(U) 64754 (TDL Integration)	18,138	0	14,675	24,720	26,833	27,079	39,950	28,544		
(U) Other APPN										
(U) Procurement (3010)										
(U) 27434 (Link 16 Sup & Sus)	0	36,013	40	0	0	0	0	0		
(U) 27445 (Fighter TDL)	0	0	31,635	98,076	122,338	94,153	44,195	32,518		
(U) 27446 (Bomber TDL)	0	0	0	86,125	48,254	33,185	30,570	28,149		
(U) 27448 (C2ISR TDL)	0	0	0	16,503	5,769	1,091	6,025	6,128		
(U) 41839 (Airlift TDL)	0	0	0	11,827	24,043	0	0	0		
(U) O&M (3400)										
(U) 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) 27434 (Link 16 Sup & Sus)	0	0	0	1,744	9,602	21,202	2,785	2,829		

(U)   E. Acquisition Strategy

The Air Force Tactical Data Links System Program Office (SPO) provides for common development of integration and interoperability across all Air Force platforms and ensures that link 16 is procured and maintained as a joint, end-to-end, command and control system.

(U)   F. Schedule Profile

	FY 2002				FY 2003				FY 2004			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Link 16 Terminals								X				
(U) Proposal Prep for Contract Award								X				
(U) Begin Integration of B-1 Datalink Capability										X		

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)	DATE **February 2003**

BUDGET ACTIVITY **07 - Operational System Development**	PE NUMBER AND TITLE **0207446F Bomber Tactical Data Link**	PROJECT **5041**

(U) A. Project Cost Breakdown ($ in Thousands)

	FY 2002	FY 2003	FY 2004
(U) Contract for LOS Link 16 terminals and BLOS radios for B-1 development labs and aircraft			2,500
(U) Complete proposal preparation for contract award			2,000
(U) Integrate B-1 LOS and BLOS datalink capability			8,459
(U) Total			12,959

(U) B. Budget Acquisition History and Planning Information ($ in Thousands)

(U) Performing Organizations:

Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 2002	Budget FY 2002	Budget FY 2003	Budget FY 2004	Budget to Complete	Total Program
Product Development Organizations										
Rockwell/Lockheed Martin/Viasat*	FFP	1QFY04						2,500	Continuing	TBD
B-1 Link 16 Development Contractor**	TBD	3QFY04						9,649	Continuing	TBD
Contractor Support	FFP	1QFY04						500	Continuing	TBD
MITRE	FFP	1QFY04						200	Continuing	TBD

*MIPR funding to SPAWAR to purchase terminals. **MIPR funding to B-1 SPO for devlopment/integration efforts.

Support and Management Organizations										
Program Office								110	Continuing	TBD

Test and Evaluation Organizations

(U) Government Furnished Property:

Item Description	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Delivery Date		Total Prior to FY 2002	Budget FY 2002	Budget FY 2003	Budget FY 2004	Budget to Complete	Total Program
Product Development Property										

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)	DATE February 2003	
BUDGET ACTIVITY **07 - Operational System Development**	PE NUMBER AND TITLE **0207446F Bomber Tactical Data Link**	PROJECT **5041**

(U) **Government Furnished Property Continued:**

Support and Management Property

Test and Evaluation Property

Subtotals	Total Prior to FY 2002	Budget FY 2002	Budget FY 2003	Budget FY 2004	Budget to Complete	Total Program
Subtotal Product Development				12,849	TBD	TBD
Subtotal Support and Management				110	TBD	TBD
Subtotal Test and Evaluation						
Total Project				12,959	TBD	TBD