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

DATE

February 2003

BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0207448F C2ISR Tactical Data Link

PROJECT

5045

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
5045 C2ISR Tactical Data Link	0	0	26,927	26,713	7,254	745	0	0	0	62,745
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), Variable Message Format (VMF).

This effort adds Link 16 capability to ground and air C2 platforms including, but not limited to, Airborne Warning and Control System (AWACS), Joint Surveillance Target Attack Radar System (JSTARS), Multi Sensor Command & Control Aircraft (MC2A) and Iceland Air Defense System (IADS). In particular, this effort funds AWACS 40/45 Data Link Infrastructure (DLI) integration, JSTARS Attack Support Upgrade (ASU) and MC2A TDL. AWACS DLI improves AWACS contribution to Time Critical Targeting via DLI. JSTARS ASU provides sensor-to-shooter connectivity with Link-16 equipped fighters/bombers on attack support, theater missile defense missions, and global attack, and helicopter detection and reporting. MC2A TDL provides support for Multi-Sensor Command and Control Aircraft TDL development and testing activities.

(U) FY 2002 (\$ in Thousands)

(U) \$0 Accomplishments/Planned Program
 (U) \$0 No Activity
 (U) \$0 Total

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BUDGET ACTIVITY

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PROJECT

07 - Operational System Development**0207448F C2ISR Tactical Data Link****5045**(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) \$1,251 AWACS Blocks 40/45 Upgrades .

(U) \$22,274 Support system integration for JSTARS Link 16 Attack Support Upgrades (ASU) capability.

(U) \$3,402 Support C2ISR Integration

(U) \$26,927 Total

(U) **B. Budget Activity Justification**

C2ISR 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 2002FY 2003FY 2004Total Cost

(U) Previous President's Budget

27,422

62,745

(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

-495

(U) Current Budget Submit/FY 2004 PBR

26,927

62,745

(U) **Significant Program Changes:**

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

	<u>FY 2002</u>	<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>Estimate</u>	<u>Complete</u>	
(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) 27446 (Bomber TDL)	0	0	12,959	120,571	166,535	89,009	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) Aircraft Procurement, AF (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, AF (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 2002FY 2003FY 2004

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(U) F. Schedule Profile Continued

	<u>FY 2002</u>				<u>FY 2003</u>				<u>FY 2004</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) AWACS Block 40/45 Upgrade										X	X	X
(U) JSTARS ASU System Integration									X	X	X	X
(U) C2ISR Integration										X	X	X
(U)												

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										DATE February 2003	
BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT		
07 - Operational System Development					0207448F C2ISR Tactical Data Link				5045		
(U) <u>A. Project Cost Breakdown (\$ in Thousands)</u>											
						<u>FY 2002</u>		<u>FY 2003</u>		<u>FY 2004</u>	
(U)	AWACS Blocks 40/45 Upgrades									1,251	
(U)	System integration for JSTARS Link 16 ASU capability.									22,274	
(U)	C2ISR Integration									3,402	
(U)	Total									26,927	
(U) <u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u>											
(U) <u>Performing Organizations:</u>											
	<u>Contractor or Government</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Performing Activity</u>	<u>Project Office</u>	<u>Total Prior to FY 2002</u>	<u>Budget FY 2002</u>	<u>Budget FY 2003</u>	<u>Budget FY 2004</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>Performing Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>						
	<u>Product Development Organizations</u>										
	Northrop Grumman	CPAF	Feb 03			0	0	0	22,020	31,493	53,513
	Boeing	FPIF/CPAF	Feb 04			0	0	0	1,150	4,325	5,475
	C2ISR Integration	Various	Various			0	0	0	3,233	0	3,233
	MITRE								254		254
	<u>Support and Management Organizations</u>										
	Program Office	Various	Various						270		270
	<u>Test and Evaluation Organizations</u>										
(U) <u>Government Furnished Property:</u>											
	<u>Item</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Delivery</u>		<u>Total Prior to FY 2002</u>	<u>Budget FY 2002</u>	<u>Budget FY 2003</u>	<u>Budget FY 2004</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>							
	<u>Product Development Property</u>										
	<u>Support and Management Property</u>										
	<u>Test and Evaluation Property</u>										

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)					DATE February 2003	
BUDGET ACTIVITY		PE NUMBER AND TITLE			PROJECT	
07 - Operational System Development		0207448F C2ISR Tactical Data Link			5045	
		<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
		<u>to FY 2002</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Complete</u>
<u>Subtotals</u>						<u>Total</u>
Subtotal Product Development		0	0	0	26,657	62,475
Subtotal Support and Management					270	270
Subtotal Test and Evaluation						
Total Project		0	0	0	26,927	62,745

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