

<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)</b>									DATE <b>June 2001</b>	
BUDGET ACTIVITY <b>05 - Engineering and Manufacturing Development</b>					PE NUMBER AND TITLE <b>0604754F Tactical Data Link Integration</b>					
COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	11,687	8,665	17,648	23,967	24,139	24,342	24,608	24,831	Continuing	TBD
4749 Link 16 System Integration	11,075	8,065	8,595	8,866	9,023	9,211	9,462	9,668	Continuing	TBD
4992 Family of Interoperable Operational Pictures (FIOP)	0	0	9,053	15,101	15,116	15,131	15,146	15,163	Continuing	TBD
P771 JTIDS	612	600	0	0	0	0	0	0	0	0
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

Note: FY03-FY07 budget numbers do not reflect the DoD strategic review results.

(U) **A. Mission Description**

Joint Tactical Information Distribution System (JTIDS) is a secure, jam-resistant, high-capacity data link for use in a tactical combat environment. The follow on system is the Multifunction Information Distribution System (MIDS) for which the Navy is the Executive Service. Both JTIDS and MIDS broadcast Link 16 (a.k.a., Tactical Digital Information Link J (TADIL J)) messages, free text, imagery and voice. [Note: Link 16 is the new tactical data link which provides technical and operational improvements to existing tactical data link capabilities.] They provide interoperability, local and global connectivity, and situational awareness to the user when operating under rapidly changing operational conditions. Both terminals are used by the Air Force, Army, Navy, and Marine Corps Theater Command and Control (C2) elements, weapons platforms, and sensors.

The number of Air Force platforms hosting Link-16 (either JTIDS or MIDS) is expanding, from C2 aircraft (E-3, E-8, etc.) into the fighter, bomber, sensor, tanker, and other tactical fleets (F-15, F-16, F-22, RJ, ABCCC, B-1, B-2, B-52, etc.). Utilization of Link-16 in a joint environment requires the integration of terminals into these host platforms, and interoperability of Link-16 nets across all deployed joint and allied platforms. Cross-platform activities performed by the Link 16 System Integration Office (SIO) include: integration efforts encompassing hardware, software, operational, and logistics development, certification of individual Link-16 implementations to joint and allied standards, establishment of Service-wide net management procedures and operations, system wide enhancements and improvements, and test and sustainment activities. In addition, the SIO is supporting the integration of Link 16 into the Icelandic Air Defense System (IADS) and has management responsibility for the Air Force's Air Defense System Integration systems (ADSI).

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## BUDGET ACTIVITY

**05 - Engineering and Manufacturing Development**

## PE NUMBER AND TITLE

**0604754F Tactical Data Link Integration**(U) **A. Mission Description Continued**

The JTIDS project office provides the user with JTIDS 2/2H terminals, as well as all of the acquisition support, technical assistance and integration necessary to operationally field, retrofit, and assist all of the platforms.

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

This program is in budget activity 5 (Engineering Manufacturing and Development) because it supports development, integration solutions, fielding, operational support activities, and support of special projects.

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

	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY 2001 PBR)	8,542	8,745	8,859	
(U) Appropriated Value	8,542	8,745		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions		-61		
b. Small Business Innovative Research				
c. Omnibus or Other Above Threshold Reprogram	3,179			
d. Below Threshold Reprogram				
e. Rescissions	-34	-19		
(U) Adjustments to Budget Years Since FY 2001 PBR			8,789	
(U) Current Budget Submit/FY 2002 PBR	11,687	8,665	17,648	TBD
(U) <b><u>Significant Program Changes:</u></b>				
FY02 \$9M Congressional plus-up for Family of Interoperable Operational Picture (FIOP), less general reductions				

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COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
4749 Link 16 System Integration	11,075	8,065	8,595	8,866	9,023	9,211	9,462	9,668	Continuing	TBD

Note: FY03-FY07 budget numbers do not reflect the DoD strategic review results.

(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), Enhanced Position Location Reporting System (EPLRS), and Common Data link (CDL).

The number of Air Force platforms hosting Link-16 is expanding, from C2 aircraft (E-3, E-8, etc.) into the fighter, bomber, sensor, tanker, airlift and other tactical fleets (F-15, F-16, F-22, RJ, ABCCC, B-1, B-2, B-52, etc.). Utilization of TDLs in a joint environment requires the integration of terminals into these host platforms and interoperability of TDL networks across all deployed joint and allied platforms. Cross-platform activities performed by the Tactical Data Links System Program Office (SPO) (formerly the Link-16 SPO) includes: integration efforts encompassing hardware, software, operational, and logistics development, certification of individual TDL implementations to joint and allied standards, establishment of Service-wide net management procedures and operations, system wide enhancements and improvements, and test and sustainment activities. In addition, the SPO is supporting the integration of TDL (specifically Link-16) into the Icelandic Air Defense System (IADS) and has management responsibility for the Air Force's Air Defense System Integrator (ADSI)

(U) **FY 2000 (\$ in Thousands)**

- (U) \$4,816 CONTINUE LINK-16 INTEGRATION: Efforts associated with hardware and software integration of Link 16 terminals into Air Force platforms.  
 -- (U) On-going Engineering Integration Support to Platforms; Technical Improvements; Field Support; Technical Assistance to related tactical data link demonstration programs.
- (U) \$2,019 CONTINUE LINK-16 EMD SUPPORT: Efforts associated with fielding terminals.  
 -- (U) Support Operations Support Working Group; Maintain Developmental Equipment; Test Support; Fielding/Non-Recurring Training; Network Support; Crypto Support; Spectrum Support; Gateway Support; Data Link Tool Support.
- (U) \$100 CONTINUED TACTICAL DATA LINK CONNECTIVITY:  
 -- (U) Link 16/Gateway/Interfaces

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Exhibit R-2A (PE 0604754F)

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE June 2001
BUDGET ACTIVITY <b>05 - Engineering and Manufacturing Development</b>	PE NUMBER AND TITLE <b>0604754F Tactical Data Link Integration</b>	PROJECT <b>4749</b>
<p>(U) <b><u>A. Mission Description Continued</u></b></p> <p>(U) <b><u>FY 2000 (\$ in Thousands) Continued</u></b></p> <p>                    -- (U) ADSI Management.</p> <p>(U) \$150               CONTINUED SYSTEM TESTING &amp; SUPPORT: Cross-platform Test and Evaluation and system-level testing.</p> <p>(U) \$3,990           JEFX/LINK-16 INTEGRATION: Funding provided in this PEC to support of EFX program.</p> <p>(U) \$11,075          Total</p> <p>(U) <b><u>FY 2001 (\$ in Thousands)</u></b></p> <p>(U) \$5,763           CONTINUE LINK-16 INTEGRATION: Efforts associated with hardware and software integration of Link 16 terminals into Air Force platforms.</p> <p>                    -- (U) On-going Engineering Integration Support to Platforms; Technical Improvements; Field Support; Technical Assistance to related tactical data link demonstration programs.</p> <p>(U) \$2,052           CONTINUE LINK-16 EMD SUPPORT: Efforts associated with fielding terminals.</p> <p>                    -- (U) Support Operations Support Working Group; Maintain Developmental Equipment; Test Support; Fielding/Non-Recurring Training; Network Support; Crypto Support; Spectrum Support; Single Integrated Air Picture System Engineering Task Force Support, Korea Tactical Data Link Upgrade Support</p> <p>(U) \$100             CONTINUED TACTICAL DATA LINK CONNECTIVITY:</p> <p>                    -- (U) Link 16/other TDLs/Gateway/Interfaces. (Gateways are considered a new start in FY01 due to the increased scope of the efforts)</p> <p>                    -- (U) ADSI Management.</p> <p>(U) \$150             CONTINUED SYSTEM TESTING &amp; SUPPORT: Cross-platform Test and Evaluation and system-level testing.</p> <p>(U) \$8,065           Total</p> <p>Note: The following net transactions are not reflected in the FY01 program total: SBIR = -268K. These transactions are not reflected in other sections of the R-docs where an FY01 total is shown.</p> <p>(U) <b><u>FY 2002 (\$ in Thousands)</u></b></p> <p>(U) \$5,838           CONTINUE LINK-16 INTEGRATION: Efforts associated with hardware and software integration of Link 16 terminals into Air Force platforms.</p> <p>                    -- (U) On-going Engineering Integration Support to Platforms; Technical Improvements; Field Support; Technical Assistance to related tactical data link demonstration programs.</p> <p>(U) \$2,239           CONTINUE LINK-16 EMD SUPPORT: Efforts associated with fielding terminals.</p> <p>                    -- (U) Support Operations Support Working Group; Maintain Developmental Equipment; Test Support; Fielding/Non-Recurring Training;</p>		
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(U) **A. Mission Description Continued**(U) **FY 2002 (\$ in Thousands) Continued**

Network Support: Crypto Support; Spectrum Support; Gateway Support; Data link Tool Support.

## (U) \$279 CONTINUED TACTICAL DATA LINK CONNECTIVITY:

-- (U) Link 16/other TDLs/Gateways/Interfaces.

-- (U) ADSI Management.

## (U) \$239 CONTINUED SYSTEM TESTING &amp; SUPPORT: Cross-platform Test and Evaluation and system-level testing.

## (U) \$8,595 Total

(U) **B. Project Change Summary**

None

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

	<u>FY 2000</u>	<u>FY 2001</u>	<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>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) Other APPN	3,662	3,790	7,895	6,291	8,185	8,111	8,389	8,560		
OPAF, RDT&E,N, O&M										

(U) **D. Acquisition Strategy**

The Air Force Tactical Data Link 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. Host platforms program and budget for JTIDS or MIDS (Fighter Data Link (FDL) and Low Volume Terminal (LVT) derivatives) production terminals and for installation into operational units.

(U) **E. Schedule Profile**

	<u>FY 2000</u>			<u>FY 2001</u>			<u>FY 2002</u>					
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Contract Milestones												
(U) - FDL Full Rate Production Award				*								
(U) - MIDS LVT - F-16 Production Award					*							
(U) Host Platform Integration Start												
(U) - F-15E (thru FY01)									X			

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(U) <b><u>E. Schedule Profile Continued</u></b>												
		<u>FY 2000</u>				<u>FY 2001</u>				<u>FY 2002</u>		
	1	2	3	4	1	2	3	4	1	2	3	4
(U)	- F-15C/D Installation/Training (thru FY01)							X				
(U)	- F-16 (thru FY04)											
(U)	- Compass Call (thru FY02)											X
(U)	- Airborne Laser (ABL) (thru 1st Qtr FY03)											
(U)	- B-2 EMD											X
(U)	Command and Control Platforms											
(U)	- AWACS Link 16 Qual Complete											*
(U)	Complete Baseline Integration											
(U)	- MCE (P3I)											
(U)	-- Installation Start											
(U)	-- Installation Complete											*
(U)	-IADS installation start											X
* Denotes completed events												
X Denotes planned events												

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE		June 2001	
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT	
05 - Engineering and Manufacturing Development					0604754F Tactical Data Link Integration					4749	
(U) A. Project Cost Breakdown (\$ in Thousands)											
					FY 2000		FY 2001		FY 2002		
(U)	Link-16 Integration				4,816		5,763		5,838		
(U)	EMD Activities				2,019		2,052		2,239		
(U)	Tactical Data Link Connectivity				100		100		279		
(U)	System Testing & Support				150		150		239		
(U)	JEFX Funding				3,990		0		0		
(U)	Total				11,075		8,065		8,595		
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)											
(U) Performing Organizations:											
<u>Contractor or</u>		<u>Contract</u>									
<u>Government</u>		<u>Method/Type</u>		<u>Award or</u>	<u>Performing</u>	<u>Project</u>					
<u>Performing</u>		<u>or Funding</u>		<u>Obligation</u>	<u>Activity</u>	<u>Office</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
<u>Activity</u>		<u>Vehicle</u>		<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>
<u>Product Development Organizations</u>											
Data Link Solutions		MIPR		TBD			114	600	624	649	Continuing
<u>Support and Management Organizations</u>											
ESC		Various		Various			521	315	325	419	Continuing
CONTRACTOR SUPPORT		FPLOE		Various			1,076	3,205	2,913	3,118	Continuing
MITRE		FPLOE		Various			4,165	6,805	4,053	4,099	Continuing
<u>Test and Evaluation Organizations</u>											
EGLIN AFB		PO/616		Various			852	150	150	310	Continuing
					<u>Total Prior</u>		<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
					<u>to FY 2000</u>		<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>	<u>Program</u>
<u>Subtotals</u>											
Subtotal Product Development						114	600	624	649	TBD	TBD
Subtotal Support and Management						5,762	10,325	7,291	7,636	TBD	TBD
Subtotal Test and Evaluation						852	150	150	310	TBD	TBD
Total Project						6,728	11,075	8,065	8,595	TBD	TBD
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BUDGET ACTIVITY

**05 - Engineering and Manufacturing Development**

PE NUMBER AND TITLE

**0604754F Tactical Data Link Integration**

PROJECT

**4992**

COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
4992 Family of Interoperable Operational Pictures (FIOP)	0	0	9,053	15,101	15,116	15,131	15,146	15,163	Continuing	TBD

Note: FY03-FY07 budget numbers do not reflect the DoD strategic review results.

(U) **A. Mission Description**

This funding will be used to continue development of the Family of Interoperable Operational Pictures (FIOP) architecture and be appropriately apportioned for the purpose of identifying and eliminating interoperability gaps and unnecessary duplications derived from the FIOP implementation strategy. When complete, the FIOP effort will allow all Services and Agency systems to exchange data to improve the coherence and consistency across systems that support Joint and Coalition operations.

(U) **FY 2000 (\$ in Thousands)**

(U) \$0 No Activity

(U) \$0 Total

(U) **FY 2001 (\$ in Thousands)**

(U) \$0 No Activity

(U) \$0 Total

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

- (U) \$1,250 SUPPORT FIOP EFFORTS: Provide management and technical oversight to all phases of FIOP  
 --(U) On-going support for all FIOP related activities, CONOP development, requirements review, implementation review, working group support, web site maintenance.
- (U) \$1,700 FIOP JOINT OPERATIONAL CONCEPT DEVELOPMENT: Efforts associated with determining Joint Operational concepts.  
 -- (U) Generate joint operational requirements (joint architecture) including information needs to accomplish specific execution task (CAS, TCT, Ground Maneuver, humanitarian relief, etc.)
- (U) \$1,850 FIOP REQUIREMENTS DOCUMENTATION, REVIEW, ASSESSMENT AND TRAINING: Provide required documentation and training to support documentation review activities.  
 --(U) Requirements group to perform cross-service/cross system documentation review and assessment efforts to identify gaps and/or duplication in efforts; identification of new requirements
- (U) \$4,253 FIOP IMPLEMENTATION STRATEGY EFFORTS: Efforts provide forward thinking for strategic development and resolution of interoperable operation issues.

Project 4992

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**05 - Engineering and Manufacturing Development**

PE NUMBER AND TITLE

**0604754F Tactical Data Link Integration**

PROJECT

**4992**(U) **A. Mission Description Continued**(U) **FY 2002 (\$ in Thousands) Continued**

-- (U) On-going engineering support to develop a methodology through which validated gaps in capabilities can be resolved. This methodology facilitates the development of courses of action and initiation of synchronization plans to provide DOTMLPF solution for legacy systems. To facilitate traceability of operational requirements and ensure that future systems are 'born joint', adjustment/modification to requirements documents (i.e. CRDs, ORDs, MNSs); and, as necessary, POM inputs, will be provided.

(U) \$9,053 Total

(U) **B. Project Change Summary**(U) **C. Other Program Funding Summary (\$ in Thousands)**

	<u>FY 2000</u>	<u>FY 2001</u>	<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>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&amp;E

(U) Other APPN

(U) **D. Acquisition Strategy**

Using products produced by FIOP, provides courses of action/alternatives that will support an all-source picture of the battlespace containing actionable, decision-quality, information to the warfighter through a fusion of existing databases.

(U) **E. Schedule Profile**

	<u>FY 2000</u>				<u>FY 2001</u>				<u>FY 2002</u>			
	1	2	3	4	1	2	3	4	1	2	3	4

(U) FIOP PROGRAM MANAGEMENT

(U) JOINT OPERATIONAL CONCEPT DEVELOPMENT

(U) CONTINUED FIOP REQUIREMENTS DOCUMENTATION, REVIEW, ASSESSMENT AND TNG

(U) CONTINUED FIOP IMPLEMENTATION STRATEGY EFFORTS

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE		June 2001		
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT		
05 - Engineering and Manufacturing Development					0604754F Tactical Data Link Integration					4992		
(U) A. Project Cost Breakdown (\$ in Thousands)												
					FY 2000		FY 2001		FY 2002			
(U) FIOP PROGRAM MANAGEMENT									1,250			
(U) JOINT OPERATIONAL CONCEPT DEVELOPMENT									1,700			
(U) CONTINUED FIOP REQUIREMENTS DOCUMENTATION, REVIEW, ASSESSMENT AND TRAINING									1,850			
(U) CONTINUED FIOP IMPLEMENTATION STRATEGY EFFORTS									4,253			
(U) Total									9,053			
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)												
(U) Performing Organizations:												
Contractor or Government		Contract Method/Type		Award or Obligation		Performing Activity		Project Office		Total		
Performing Activity		or Funding Vehicle		Date		EAC		EAC		Program		
Product Development Organizations												
Support and Management Organizations												
ESC		Various		Various				905		Continuing TBD		
CONTRACTOR SUPPORT		FPLOE		Various				1,810		Continuing TBD		
MITRE		FPLOE		Various				6,338		Continuing TBD		
Test and Evaluation Organizations												
					Total Prior to FY 2000		Budget FY 2000		Budget FY 2001		Budget FY 2002	
									Budget to Complete		Total Program	
Subtotals												
Subtotal Product Development												
Subtotal Support and Management									9,053		TBD TBD	
Subtotal Test and Evaluation												
Total Project									9,053		TBD TBD	
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BUDGET ACTIVITY <b>05 - Engineering and Manufacturing Development</b>					PE NUMBER AND TITLE <b>0604754F Tactical Data Link Integration</b>					PROJECT <b>P771</b>	
COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost	
P771 JTIDS	612	600	0	0	0	0	0	0	0	465,113	
<p>Note: FY03-FY07 budget numbers do not reflect the DoD strategic review results.</p> <p>(U) <b><u>A. Mission Description</u></b></p> <p>Joint Tactical Information Distribution System (JTIDS) is a secure, jam-resistant, high-capacity data link for use in a tactical combat environment. The follow on system is the Multifunction Information Distribution System (MIDS) run by the Navy. Both JTIDS and MIDS broadcast Link 16 (a.k.a., Tactical Digital Information Link J (TADIL J)) messages, free text, imagery and voice. They provide interoperability, local and global connectivity, and situational awareness to the user when operating under rapidly changing operational conditions. Both are used by the Air Force, Army, Navy, and Marine Corps Theater Command and Control (C2) elements, weapons platforms, and sensors.</p> <p>The JTIDS Program Office provides the user with JTIDS 2/2H terminals, as well as all of the acquisition support, technical assistance and integration necessary to operationally field, retrofit, and assist all of the platforms.</p> <p>(U) <b><u>FY 2000 (\$ in Thousands)</u></b></p> <p>(U) \$449 CONTINUE ACQUISITION SUPPORT</p> <ul style="list-style-type: none"> <li>-- (U) Write, execute and administer contracts for multiple platforms</li> <li>-- (U) Command and Control Terminal Acquisition Support</li> <li>-- (U) Ongoing technical and programmatic support for JTIDS users</li> </ul> <p>(U) \$115 CONTINUE TECHNICAL SUPPORT</p> <ul style="list-style-type: none"> <li>-- (U) Technical Improvements <ul style="list-style-type: none"> <li>-- Technical support to AF platforms for the purpose of integrating and executing product improvements</li> <li>-- Technology Updates (e.g., advanced hardware and software)</li> </ul> </li> </ul> <p>(U) \$48 CONTINUE DIMINISHING MANUFACTURING RESOURCES</p> <ul style="list-style-type: none"> <li>-- (U) Identify problem electrical parts, assess impacts, develop, and implement resolution plans</li> </ul> <p>(U) \$612 Total</p>											
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PROJECT

P771

(U) A. Mission Description Continued(U) FY 2001 (\$ in Thousands)

(U) \$392 CONTINUE ACQUISITION SUPPORT

- (U) Write, execute and administer contracts for multiple platforms
- (U) Command and Control Terminal Acquisition Support
- (U) Ongoing technical and programmatic support for JTIDS users

(U) \$162 CONTINUE TECHNICAL SUPPORT

- (U) Technical Improvements
  - Technical support to AF platforms for the purpose of integrating and executing product improvements
  - Technology Updates (e.g., advanced hardware and software)

(U) \$46 CONTINUE DIMINISHING MANUFACTURING RESOURCES

- (U) Identify problem electrical parts, assess impacts, develop, and implement resolution plans

(U) \$600 Total

(U) FY 2002 (\$ in Thousands)

(U) \$0 No Activity

(U) \$0 Total

(U) B. Project Change Summary(U) C. Other Program Funding Summary (\$ in Thousands)

	<u>FY 2000</u>	<u>FY 2001</u>	<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>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) Other APPN										
(U) Other Proc AF, PE	0	0	0	0	0	0			0	0
0204738F, Theater Battle										
Management Core System										
(TBMCS)										
(U) Other Proc AF, 0305208F,	0	0	0	0	0	0			0	0
Intel Ops Ground Syst.										

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## UNCLASSIFIED

## RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)

DATE

June 2001

BUDGET ACTIVITY

**05 - Engineering and Manufacturing Development**

PE NUMBER AND TITLE

**0604754F Tactical Data Link Integration**

PROJECT

**P771****(U) C. Other Program Funding Summary (\$ in Thousands)**

	<u>FY 2000</u>	<u>FY 2001</u>	<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>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) Other Proc AF, 46 OSS, Eglin AFB	351	5	0	0	0	0			0	356
(U) Other Proc AF, PE 0207581F Joint Surveillance Target Attack Radar System (JSTARS)	7	0	0	0	0	0				7
(U) Other Proc AF, Warner Robins Air Logistics Center	0	0	0	0	0	0				0
(U) Other Proc AF, PE 06072300 Ground Theater Air Control System (GTACS)	1,330	0	0	0	0	0				1,330
(U) Other Proc AF, PE 0604226F, B-1	2,400	60	0	0	0	0				2,460

\* Other Program Funding reflects procurement of JTIDS hardware only. There are other USAF programs (F-15, F-16) that are budgeted to procure MIDS terminals in the FY00-FY06 timeframe.

**(U) D. Acquisition Strategy**

The JTIDS program office continues to manage the acquisition for the JTIDS Class 2/2H terminals for the Air Force, Navy, and Marine Corps. The Program Office has extended the ordering period for procurement of terminals in order to meet platform requirements. Funding for JTIDS terminal procurement will continue to wind down as the next generation Multifunctional Information Distribution System (MIDS) terminal becomes available. The period of performance to procure terminals is 30 September 2001, at that point terminal procurements are complete.

**(U) E. Schedule Profile**FY 2000FY 2001FY 2002

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## UNCLASSIFIED

## RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)

DATE

June 2001

BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT

05 - Engineering and Manufacturing Development

0604754F Tactical Data Link Integration

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(U) E. Schedule Profile Continued

	<u>FY 2000</u>				<u>FY 2001</u>				<u>FY 2002</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) New Software Releases (Yearly event)		*				X						
(U) - FRP-2 Contract Extension		*						X				
(U) Terminal Orders												
(U) - Joint STARS						X						
(U) - GTACS			*									
(U) - B-1				*								
(U) -Eglin AFB, 46 OSS				*								
(U) Terminal Deliveries												
(U) - TBMCS				*	X							
(U) - Intel Ops Ground System				*								
(U) - Joint STARS											X	
(U) - Warner Robins ALC		*										
(U) - GTACS									X			
(U) - B-1										X		
(U) -Eglin AFB, 46 OSS										X		

X denotes planned event

\* denotes completed event

## UNCLASSIFIED

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE		June 2001	
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT	
05 - Engineering and Manufacturing Development					0604754F Tactical Data Link Integration					P771	
(U) A. Project Cost Breakdown (\$ in Thousands)											
					FY 2000		FY 2001		FY 2002		
(U) Acquisition Support					449		392				
(U) Technical Support					115		162				
(U) Diminishing Manufacturing Resources					48		46				
(U) Total					612		600				
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)											
(U) Performing Organizations:											
<u>Contractor or</u>		<u>Contract</u>									
<u>Government</u>		<u>Method/Type</u>		<u>Award or</u>		<u>Performing</u>		<u>Project</u>			
<u>Performing</u>		<u>or Funding</u>		<u>Obligation</u>		<u>Activity</u>		<u>Office</u>		<u>Total Prior</u>	
<u>Activity</u>		<u>Vehicle</u>		<u>Date</u>		<u>EAC</u>		<u>EAC</u>		<u>to FY 2000</u>	
								<u>Budget</u>		<u>Budget</u>	
								<u>FY 2000</u>		<u>FY 2001</u>	
								<u>FY 2002</u>		<u>Budget to</u>	
										<u>Complete</u>	
										<u>Total</u>	
										<u>Program</u>	
<u>Product Development Organizations</u>											
GEC-MARCONI		FFP		DEC 85		230,727		230,727		230,727	
LOCKHEED		FFP		JUN 93		6,761		6,761		6,761	
GEC-MARCONI		FFP		JUN 93		1,123		1,123		850	
CACD		FFP		JUN 93		1,616		1,616		1,072	
MCAIR		CPFF		MAR 94		2,434		2,434		2,434	
RADC		PO/616		Various		3,067		3,067		3,067	
WR-ALC		PO/616		Various		2,966		2,966		2,966	
NADEP		MIPR		Various		1,030		1,030		1,030	
ACSI		FFP		SEP 94		492		492		492	
VIASAT, INC.		FFP		Various		815		815		815	
AF Platforms		PO/616		Various		169		169		169	
NORTHROP GR		FFP		AUG 97		500		500		500	
ROCKWELL		FFP		Various		2,080		2,080		2,080	
HUGHES		FFP		Various		133		133		133	
DRC		FFP		MAY 97		213		213		213	
MIDSCO, Inc		MIPR		Various		4,251		4,251		4,251	
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE	June 2001
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT	
05 - Engineering and Manufacturing Development				0604754F Tactical Data Link Integration				P771	
(U) <u>Performing Organizations Continued:</u>									
<u>Product Development Organizations</u>									
MOTOROLA INC	FFP	Various	1,800	1,800	1,800			0	1,800
ALLIED SIGNAL	CPFF	Various	75	75	75			0	75
MCDONNEL DG	FFP	Various	2,582	2,582	2,582			0	2,582
BOEING	FFP	Various	869	869	869			0	869
<u>Support and Management Organizations</u>									
ESC	Various	Various	21,875	21,875	21,973	127	149	0	22,249
CONTRACTOR SUPPORT	Various	Various	42,863	42,863	42,749	78	50	0	42,877
MITRE	FPLOE	Various	134,023	134,023	134,023	61	0	0	134,084
<u>Test and Evaluation Organizations</u>									
MT HOME AFB	PO/616	Various	416	416	416			0	416
EGLIN AFB	PO/616	Various	1,969	1,969	1,854	0	0	0	1,854
				<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Subtotals</u>				<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development				262,886	346	401		0	263,633
Subtotal Support and Management				198,745	266	199		0	199,210
Subtotal Test and Evaluation				2,270	0	0		0	2,270
Total Project				463,901	612	600		0	465,113

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