

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE June 2001		
BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0207423F Advanced Communications Systems						
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	0	2,840	9,324	8,512	4,777	2,862	2,625	58,327	Continuing	TBD	
4934 Tactical Air Control Party (TACP)	0	0	9,324	8,512	4,777	2,862	2,625	2,628	Continuing	TBD	
1013 Theater Deployable Communications (TDC)	0	2,624	0	0	0	0	0	0	0	23,139	
4935 Joint Tactical Radio System (JTRS)	0	0	0	0	0	0	0	55,699	0	19,221	
2982 Anti-Jam Radio Communications	0	216	0	0	0	0	0	0	Continuing	TBD	
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0	

'FY03-FY07 budget number do not reflect the DoD strategic review results'

(U) **A. Mission Description**

The Advanced Communication Systems program procures commercially available ground communications equipment for deployment to theaters of operation; and develops and procures jam-resistant, ultra high frequency (UHF) and very high frequency (VHF) frequency-hopping tactical radios. The Theater Deployable Communications (TDC) program provides funding for research, development, test and evaluation for the modernization of operational deployable communications, and integration of commercial off the shelf (COT) equipment that support tactical air operations in a combat environment. The integration of deployable communications equipment for active duty, guard and reserve forces. TDC equipment will be fielded at wings, combat communications squadrons, Air Force Special Operations Command and Air Mobility Command communication units, and Theater Air Control System units. This funding also provides System Program Office (SPO) internal management, engineering, and technical support for the continuing spiral development of (COTS) equipment and will examine appropriate emerging technologies. TDC equipment is composed of three components Lightweight Multi band Satellite Terminal equipment, the Integrated Communications Access Packages (ICAP), and Network Management System/Base Information Protection (NMS/BIP).

TACPs advise the ground commander and staff on the capabilities and use of aerospace power and assist them in planning for air support operations. TACPs provide United States Air Force (USAF) Tactics, Techniques and Procedures (TTP) expertise and a focal point for detailed integration of Close Air Support (CAS) with the fire and maneuver of ground forces. TACP tasks include requesting/coordinating aerospace missions, integrating aerospace and ground force plans, target marking and

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BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0207423F Advanced Communications Systems(U) **A. Mission Description Continued**

Suppression of Enemy Air Defenses (SEAD) control. To accomplish this, a mix of vehicle mounted communications pallets, Manpack Radios (MPRs), Laser Range Finders (LRFs) and digital communications devices. Together these three systems provide communications infrastructure in deployed bare base environments. FY99 funding was provided for Expeditionary Force Experimentation (EFX) 99 it is part of an annual war fighter experiment to demonstrate emerging Air Force capabilities to deploy and employ decisive air and space power for the Joint Force Commander through a Rapid Response Air Expeditionary Force (RAEF). The experiment is designed to meet Chief of Staff of the Air Force (CSAF) requirement to explore how advanced command and control capabilities and new operational processes enable modern aerospace forces to decisively halt an invading force anywhere in the world. It is a continuous spiral development process for the C2 Weapon System.

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

This program is in budget activity 7, Operational System Development RDT&E, AF because it examines appropriate emerging technologies for the continuing spiral development of commercial off-the-shelf (COTS) equipment; provide software development, determines and resolves integration issues pertaining to COTS equipment

(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)	2,864	2,867	2,907	TBD
(U) Appropriated Value	0	2,867		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions		0		
b. Small Business Innovative Research		0		
c. Omnibus or Other Above Threshold Reprogram		0		
d. Below Threshold Reprogram		0		
e. Rescissions		-27		
(U) Adjustments to Budget Years Since FY 2001 PBR		0	6,417	
(U) Current Budget Submit/FY 2002 PBR	0	2,840	9,324	TBD

(U) **Significant Program Changes:**

+ 6.417M was reprogrammed by CCN during the FY02 BES budget cycle from OPAF funding to RDTE

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PE NUMBER AND TITLE

0207423F Advanced Communications Systems

PROJECT

4934

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
4934 Tactical Air Control Party (TACP)	0	0	9,324	8,512	4,777	2,862	2,625	2,628	Continuing	TBD

'FY03-FY07 budget numbers do not reflect the DoD strategic review results'

(U) **A. Mission Description**

Tactical Air Control Party (TACP) provide numerous critical functions across the battlespace. They advise the warfighter on aircraft employment; coordinate and control aerospace operations and participate in battle planning. TACPs are equipped with various communications and support gear needed to interface with both ground forces and aircraft conducting air operations, aerospace command and control (C2) agencies; including AWACS and Intelligence, Surveillance and Reconnaissance (ISR) agencies. TACPs advise the ground commander and staff on the capabilities and use of aerospace power and assist them in planning for air support operations. TACPs provide United States Air Force (USAF) Tactics, Techniques and Procedures (TTP) expertise and a focal point for detailed integration of Close Air Support (CAS) with the fire and maneuver of ground forces. TACP tasks include requesting/coordinating aerospace missions, integrating aerospace and ground force plans, target marking and Suppression of Enemy Air Defenses (SEAD) control. To accomplish this, they use a mix of vehicle mounted communications pallets, Manpack Radios (MPRs), Laser Range Finders (LRF) and computers with associated informational software.

(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) \$8,000 Develop JTRS compliant TACP Vehicular Communication System (VCS) hardware in conjunction with Army's JTRS Cluster I acquisition strategy

(U) \$1,000 System integration software development

(U) \$324 Operational and interoperability test planning

(U) \$9,324 Total

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

Project 4934

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BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0207423F Advanced Communications Systems				PROJECT 4934	
(U) <u>C. Other Program Funding Summary (\$ in Thousands)</u>										
	<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 OPAF	11,079	17,195	18,188	31,743	9,590	4,396	19,122	19,597	Continuing	TBD
(U) <u>D. Acquisition Strategy</u>										
All major contracts within this Program Element and BPACS will be awarded after full and open completion										
(U) <u>E. Schedule Profile</u>										
	<u>FY 2000</u>			<u>FY 2001</u>			<u>FY 2002</u>			
	1	2	3	4	1	2	3	4	1	2
(U) VCS JTRS Compliant Radio Development										X
(U) Integration activities										X
(U) Start operational field testing										X
'X' Activity has not been completed										

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE		June 2001	
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT	
07 - Operational System Development					0207423F Advanced Communications Systems					4934	
(U) A. Project Cost Breakdown (\$ in Thousands)											
					FY 2000		FY 2001		FY 2002		
(U) Engineering Support									1,538		
(U) VCS JTRS Compliant Radio Development									7,646		
(U) Travel									130		
(U) Miscellaneous									10		
(U) Total									9,324		
(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>Budget</u>		<u>Budget</u>		<u>Budget</u>		<u>Total</u>	
<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>Complete</u>		<u>Program</u>			
<u>Product Development Organizations</u>											
ESC / CECOM Cluster I		TBD		TBD		TBD		0		0	
								7,581		Continuing	
<u>Support and Management Organizations</u>											
ESC		FFP		Varies				0		0	
								1,538		Continuing	
<u>Test and Evaluation Organizations</u>											
JITC / 605th TS / 46th TS								0		0	
								205		Continuing	
								0		TBD	
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DATE

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BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0207423F Advanced Communications Systems

PROJECT

1013

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
1013 Theater Deployable Communications (TDC)	0	2,624	0	0	0	0	0	0	0	23,139

'FY03-FY07 budget number do not reflect the DoD strategic review results'

(U) **A. Mission Description**

As clearly demonstrated during Desert Shield/Desert Storm (DS/DS), 70's generation of deployable communications equipment is bulky, inflexible in design and does not meet today's projected airlift availability or interoperability standards. TDC packages have reduced airlift requirements and is designed to support a wide range of operational scenarios during deployment/employment and sustainment operations. Combat communications units are equipped with TDC Integrated Communication Access Packages (ICAP), Lightweight Multiband Satellite Terminals (LMST) and Network Management System /Base Information Protection (NMS/BIP) were deployed to Bosnia and Kosovo in support of theater air operations and deployed tactical air and mobility wings. LMST provided the reach back from the forward battle area back to the National Command Center and backbone theater communication required to operate in an austere environment to expedite dissemination of critical war fighter information. TDC performance during these operations exceeded Air Force and CINC expectations

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

(U) \$0 No Activity

(U) \$0 Total

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

(U) \$680 Prepare TDC roadmap and acquisition 'way ahead'

(U) \$1,838 Continue field interoperability and integration activities

(U) \$106 Program Management Activity (travel, supplies, etc)

(U) \$2,624 Total

The following net transactions are not reflected in the FY01 program total: BTR = -929K and SBIR = -107K. These transactions are not reflected in other sections of the R-docs where an FY01 total is shown

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

(U) \$0 No Activity

(U) \$0 Total

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

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BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0207423F Advanced Communications Systems				PROJECT 1013	
(U) <u>C. Other Program Funding Summary (\$ in Thousands)</u>										
	<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 OPAF	68,033	74,664	76,908	123,661	155,153	120,560	97,290	74,172	Continuing	TBD
(U) <u>D. Acquisition Strategy</u>										
The TDC contracts were awarded after full and open competitions. (When restricted technologies are involved, foreign competition is not allowed)										
(U) <u>E. Schedule Profile</u>										
	<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) Complete Roadmap									*	
(U) Complete 3600 integration activities									*	
(U) Complete TDC "Way-ahead"									*	
* Denotes completed event										

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										DATE June 2001	
BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0207423F Advanced Communications Systems					PROJECT 1013	
(U) <u>A. Project Cost Breakdown (\$ in Thousands)</u>											
							<u>FY 2000</u>	<u>FY 2001</u>		<u>FY 2002</u>	
(U)	Software Support						0	802		0	
(U)	Engineering Support						0	626		0	
(U)	Integration Activities						0	1,090		0	
(U)	Travel						0	100		0	
(U)	Miscellaneous						0	6		0	
(U)	Total						0	2,624		0	
(U) <u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u>											
(U) <u>Performing Organizations:</u>											
	<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>Total</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>Program</u>
<u>Product Development Organizations</u>											
	Various					14,497	0	813		0	15,310
<u>Support and Management Organizations</u>											
	MITRE	FFP	Oct 97	5,517	0	4,559	0	958		0	5,517
	In house contractor Spt	FFP	Varies	2,317	0	1,459	0	853		0	2,312
<u>Test and Evaluation Organizations</u>											
						<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					14,497	0	813		0	15,310
	Subtotal Support and Management					6,018	0	1,811		0	7,829
	Subtotal Test and Evaluation										
	Total Project					20,515	0	2,624		0	23,139

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BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0207423F Advanced Communications Systems

PROJECT

2982

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
2982 Anti-Jam Radio Communications	0	216	0	0	0	0	0	0	0	19,221

'FY03-FY07 budget number do not reflect the DoD strategic review results'

(U) **A. Mission Description**

The SINCGARS (Single Channel Ground and Airborne Radio System) waveform provides anti-jam, very high frequency (VHF) hopping voice and data communications and is the primary mode of ECCM communications between the Air Force, Army and USMC. It is utilized during Close Air Support (CAS) for maneuver units and joint battlefield operations.

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

(U) \$0 No Activity

(U) \$0 Total

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

(U) \$116 Software update for resolution of GPS incompatibility

(U) \$50 Support AN/ARC 222 fielding

(U) \$50 Improve technical supportability for AN/ARC 164 and AN/ARC 204 units

(U) \$216 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>Actual</u>	<u>FY 2001</u> <u>Estimate</u>	<u>FY 2002</u> <u>Estimate</u>	<u>FY 2003</u> <u>Estimate</u>	<u>FY 2004</u> <u>Estimate</u>	<u>FY 2005</u> <u>Estimate</u>	<u>FY 2006</u> <u>Estimate</u>	<u>FY 2007</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) AF RDT&E										
(U) Other APPN	0	0	0	0	0	0	0	0	0	0

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BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0207423F Advanced Communications Systems					PROJECT 2982																																																																																
<p>(U) <u>D. Acquisition Strategy</u> The Anti-Jame (SINCGARS) is an Army lead program that was awarded after full and open competition.</p> <p>(U) <u>E. Schedule Profile</u></p> <table><thead><tr><th></th><th colspan="4"><u>FY 2000</u></th><th></th><th colspan="4"><u>FY 2001</u></th><th></th><th colspan="4"><u>FY 2002</u></th></tr><tr><th></th><th>1</th><th>2</th><th>3</th><th>4</th><th>1</th><th>2</th><th>3</th><th>4</th><th>1</th><th>2</th><th>3</th><th>4</th></tr></thead><tbody><tr><td>(U) Investigate Anti-Jam Improvements</td><td></td><td></td><td></td><td></td><td>*</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>(U) Software Updates</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>*</td><td></td><td></td><td></td></tr><tr><td>(U) Support Fielding</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>*</td><td></td><td></td><td></td></tr><tr><td colspan="12">* Denotes completed event</td></tr></tbody></table>													<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) Investigate Anti-Jam Improvements					*								(U) Software Updates									*				(U) Support Fielding									*				* Denotes completed event											
	<u>FY 2000</u>					<u>FY 2001</u>					<u>FY 2002</u>																																																																															
	1	2	3	4	1	2	3	4	1	2	3	4																																																																														
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										DATE June 2001	
BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0207423F Advanced Communications Systems					PROJECT 2982	
(U) <u>A. Project Cost Breakdown (\$ in Thousands)</u>											
							<u>FY 2000</u>	<u>FY 2001</u>		<u>FY 2002</u>	
(U)	Software Support						0	98		0	
(U)	Engineering Support						0	80		0	
(U)	Miscellaneous						0	38		0	
(U)	Total						0	216		0	
(U) <u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u>											
(U) <u>Performing Organizations:</u>											
	<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>Total</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>Program</u>
<u>Product Development Organizations</u>											
<u>Support and Management Organizations</u>											
	MITRE	FFP	Oct 97	401	0	0	0	160		0	160
	ITSP	FFP	Varies			19,005		56			19,061
<u>Test and Evaluation Organizations</u>											
						<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										
	Subtotal Support and Management					19,005	0	216		0	19,221
	Subtotal Test and Evaluation										
	Total Project					19,005	0	216		0	19,221

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Exhibit R-3 (PE 0207423F)

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