

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2002	
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0207423F Advanced Communications Systems					
COST (\$ in Thousands)	FY 2001 Actual	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	533	9,126	29,133	4,641	2,732	2,491	2,489	Continuing	TBD
1013 Theater Deployable Communications (TDC)	317	0	0	0	0	0	0	0	20,832
2982 Anti-Jam Radio Communications	216	0	0	0	0	0	0	0	23,139
4934 Tactical Air Control Party (TACP)	0	9,126	29,133	4,641	2,732	2,491	2,489	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	Continuing	TBD

All Joint Tactical Radio System (JTRS) RDT&E funds have been transferred to PE 0604280F, JTRS.

(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).

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<p>(U) <u>A. Mission Description Continued</u> 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, 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. The increase FY03 can be attributed to an internal re-programming of Other Procurement, Air Force (OPAF) to RDTE funds required for cluster 1 TACP-M link-16 development</p> <p>Joint Tactical Radio System (JTRS) is the Department of Defense family of software-defined radios, DOD anticipates this radio's technology will support the warfighter's information and transmission requirements reflected in Joint Vision 2020. JTRS's technology is essential to the Air Force's Tactical Data Link implementation. The Air Force is establishing an acquisition program office and pursuing the Service lead for the JTRS Airborne Cluster.</p>																																																											
<p>(U) <u>B. Budget Activity Justification</u> 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</p>																																																											
<p>(U) <u>C. Program Change Summary (\$ in Thousands)</u></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;"></th> <th style="text-align: right;"><u>FY 2001</u></th> <th style="text-align: right;"><u>FY 2002</u></th> <th style="text-align: right;"><u>FY 2003</u></th> <th style="text-align: right;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget</td> <td style="text-align: right;">2,867</td> <td style="text-align: right;">2,907</td> <td style="text-align: right;">8,512</td> <td style="text-align: right;">TBD</td> </tr> <tr> <td>(U) Appropriated Value</td> <td style="text-align: right;">2,867</td> <td style="text-align: right;">9,324</td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> a. Congressional/General Reductions</td> <td style="text-align: right;">0</td> <td></td> <td></td> <td></td> </tr> <tr> <td> b. Small Business Innovative Research</td> <td style="text-align: right;">-107</td> <td></td> <td></td> <td></td> </tr> <tr> <td> c. Omnibus or Other Above Threshold Reprogram</td> <td style="text-align: right;">0</td> <td></td> <td></td> <td></td> </tr> <tr> <td> d. Below Threshold Reprogram</td> <td style="text-align: right;">-2,200</td> <td></td> <td></td> <td></td> </tr> <tr> <td> e. Rescissions</td> <td style="text-align: right;">-27</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Budget Years Since FY 2002 PBR</td> <td></td> <td style="text-align: right;">-198</td> <td style="text-align: right;">20,621</td> <td></td> </tr> <tr> <td>(U) Current Budget Submit/FY 2003 PBR</td> <td style="text-align: right;">533</td> <td style="text-align: right;">9,126</td> <td style="text-align: right;">29,133</td> <td style="text-align: right;">TBD</td> </tr> </tbody> </table>						<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>	(U) Previous President's Budget	2,867	2,907	8,512	TBD	(U) Appropriated Value	2,867	9,324			(U) Adjustments to Appropriated Value					a. Congressional/General Reductions	0				b. Small Business Innovative Research	-107				c. Omnibus or Other Above Threshold Reprogram	0				d. Below Threshold Reprogram	-2,200				e. Rescissions	-27				(U) Adjustments to Budget Years Since FY 2002 PBR		-198	20,621		(U) Current Budget Submit/FY 2003 PBR	533	9,126	29,133	TBD
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BUDGET ACTIVITY	PE NUMBER AND TITLE	
07 - Operational System Development	0207423F Advanced Communications Systems	
<p>(U) <u>C. Program Change Summary (\$ in Thousands) Continued</u></p> <p>(U) <u>Significant Program Changes:</u> FY03 \$20.6 million increase is required for Cluster 1 TACP-M link-16 development and system integration.</p>		

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE February 2002		
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0207423F Advanced Communications Systems				PROJECT 1013	
COST (\$ in Thousands)	FY 2001 Actual	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)	317	0	0	0	0	0	0	0	20,832
<p>(U) <u>A. Mission Description</u> As clearly demonstrated during Desert Shield/Desert Storm (DS/DS), '70s generation of deployable communications equipment is bulky, inflexible in design and does not meet today's projected airlift availability or interoperability standards. Theater Deployable Communications (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.</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u> (U) \$100 Prepared TDC roadmap and acquisition 'way ahead' (U) \$111 Completed field interoperability and integration activities (U) \$106 Completed Program Management Activity (travel, supplies, etc) (U) \$317 Total</p> <p>(U) <u>FY 2002 (\$ in Thousands)</u> (U) \$0 No Activity (U) \$0 Total</p> <p>(U) <u>FY 2003 (\$ in Thousands)</u> (U) \$0 No Activity (U) \$0 Total</p> <p>(U) <u>B. Project Change Summary</u></p>									
Project 1013			Page 4 of 13 Pages			Exhibit R-2A (PE 0207423F)			

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BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0207423F Advanced Communications Systems				PROJECT 1013	
(U) C. Other Program Funding Summary (\$ in Thousands)									
	<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>Complete</u>	
(U) AF RDT&E									
(U) Other APPN OPAF	74,664	76,373	122,377	165,554	122,764	96,329	73,295	Continuing	TBD
(U) D. Acquisition Strategy									
The TDC contracts were awarded after full and open competitions. (When restricted technologies are involved, foreign competition is not allowed)									
(U) E. Schedule Profile									
				<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>	
				1	2	3	4	1	2
(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 February 2002		
BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0207423F Advanced Communications Systems			PROJECT 1013		
(U) A. Project Cost Breakdown (\$ in Thousands)										
						<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>
(U)	Software Support					110		0		0
(U)	Engineering Support					111		0		0
(U)	Travel					96		0		0
(U)	Total					317		0		0
(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>Total</u>
<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Organizations</u>										
	Various				14,497	100			0	14,597
<u>Support and Management Organizations</u>										
	MITRE	FFP	Oct 97	5,517	0	4,559	105		0	4,664
	In house contractor Spt	FFP	Varies	2,317	0	1,459	112		0	1,571
<u>Test and Evaluation Organizations</u>										
						<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
	<u>Subtotals</u>					<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>
	Subtotal Product Development					14,497	100			0
	Subtotal Support and Management					6,018	217			0
	Subtotal Test and Evaluation									
	Total Project					20,515	317			0

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COST (\$ in Thousands)	FY 2001 Actual	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	216	0	0	0	0	0	0	0	23,139																																								
<p>(U) <u>A. Mission Description</u> 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.</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u> (U) \$116 Completed software update for resolution of GPS incompatibility (U) \$50 Completed AN/ARC 222 fielding (U) \$50 Completed technical supportability for AN/ARC 164 and AN/ARC 204 units (U) \$216 Total</p> <p>(U) <u>FY 2002 (\$ in Thousands)</u> (U) \$0 No Activity (U) \$0 Total</p> <p>(U) <u>FY 2003 (\$ in Thousands)</u> (U) \$0 No Activity (U) \$0 Total</p> <p>(U) <u>B. Project Change Summary</u></p> <p>(U) <u>C. Other Program Funding Summary (\$ in Thousands)</u></p> <table border="0"> <thead> <tr> <th></th> <th><u>FY 2001</u></th> <th><u>FY 2002</u></th> <th><u>FY 2003</u></th> <th><u>FY 2004</u></th> <th><u>FY 2005</u></th> <th><u>FY 2006</u></th> <th><u>FY 2007</u></th> <th><u>Cost to</u></th> <th><u>Total Cost</u></th> </tr> <tr> <th></th> <th><u>Actual</u></th> <th><u>Estimate</u></th> <th><u>Estimate</u></th> <th><u>Estimate</u></th> <th><u>Estimate</u></th> <th><u>Estimate</u></th> <th><u>Estimate</u></th> <th><u>Complete</u></th> <th></th> </tr> </thead> <tbody> <tr> <td>(U) AF RDT&E</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Other APPN</td> <td align="right">0</td> <td align="right">0</td> <td align="right">0</td> <td align="right">0</td> <td align="right">0</td> <td align="right">0</td> <td align="right">0</td> <td align="right">0</td> <td align="right">0</td> </tr> </tbody> </table>											<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>Complete</u>		(U) AF RDT&E										(U) Other APPN	0	0	0	0	0	0	0	0	0
	<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>																																								
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<p>(U) <u>D. Acquisition Strategy</u> The Anti-Jam (SINCGARS) is an Army lead program that was awarded after full and open competition.</p> <p>(U) <u>E. Schedule Profile</u></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;"></th> <th colspan="4" style="text-align: center;"><u>FY 2001</u></th> <th colspan="4" style="text-align: center;"><u>FY 2002</u></th> <th colspan="3" style="text-align: center;"><u>FY 2003</u></th> </tr> <tr> <th style="text-align: left;"></th> <th style="text-align: center;">1</th> <th style="text-align: center;">2</th> <th style="text-align: center;">3</th> <th style="text-align: center;">4</th> <th style="text-align: center;">1</th> <th style="text-align: center;">2</th> <th style="text-align: center;">3</th> <th style="text-align: center;">4</th> <th style="text-align: center;">1</th> <th style="text-align: center;">2</th> <th style="text-align: center;">3</th> <th style="text-align: center;">4</th> </tr> </thead> <tbody> <tr> <td>(U) Investigate Anti-Jam Improvements</td> <td style="text-align: center;">*</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> </tbody> </table> <p>* Denotes completed event</p>												<u>FY 2001</u>				<u>FY 2002</u>				<u>FY 2003</u>				1	2	3	4	1	2	3	4	1	2	3	4	(U) Investigate Anti-Jam Improvements	*												(U) Software Updates													(U) Support Fielding												
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(U) A. Project Cost Breakdown (\$ in Thousands)										
						<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>
(U)	Software Support					98		0		0
(U)	Engineering Support					80		0		0
(U)	Miscellaneous					38		0		0
(U)	Total					216		0		0
(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>Total</u>
<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</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	160			0	160
ITSP	FFP	Varies			22,923	56				22,979
<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 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development										
Subtotal Support and Management					22,923	216			0	23,139
Subtotal Test and Evaluation										
Total Project					22,923	216			0	23,139

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COST (\$ in Thousands)		FY 2001 Actual	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	9,126	29,133	4,641	2,732	2,491	2,489	Continuing	TBD
<p>(U) <u>A. Mission Description</u></p> <p>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.</p> <p>The Air Force fully supports the Joint Tactical Radio System (JTRS) procurement acquisition strategy and is a participant in the Army led JTRS Cluster 1 initiative. The AF's significant FY03 funding increase supports needed for the development of an AF unique requirement within this Cluster. One of the JTRS cluster ground rules is a service must fund any Service unique requirements. The AF's requirement for Link-16 capability within the Cluster 1 radio is considered Service unique, therefore the AF will contribute \$19.8M to the Army for TACP-M JTRS Link-16 vehicular-mounted communication system development (none KPP) and system integration software.</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u></p> <p>(U) \$0 No Activity</p> <p>(U) \$0 Total</p> <p>(U) <u>FY 2002 (\$ in Thousands)</u></p> <p>(U) \$6,419 Begin developing JTRS compliant TACP Vehicular Communication System (VCS) hardware in conjunction with Army's JTRS Cluster I acquisition strategy.</p> <p>(U) \$2,502 Software development and system integration begins.</p> <p>(U) \$205 Operational and interoperability test planning.</p>										
Project 4934				Page 10 of 13 Pages				Exhibit R-2A (PE 0207423F)		

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE February 2002			
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0207423F Advanced Communications Systems				PROJECT 4934		
(U) <u>A. Mission Description Continued</u>										
(U) <u>FY 2002 (\$ in Thousands) Continued</u>										
(U) \$9,126 Total										
(U) <u>FY 2003 (\$ in Thousands)</u>										
(U) \$19,788 Continue JTRS compliant TACP Vehicular Communication System (VCS) hardware in conjunction with Army's JTRS Cluster I acquisition strategy.										
(U) \$9,245 Software development and System integration.										
(U) \$100 Operational and interoperability test planning.										
(U) \$29,133 Total										
(U) <u>B. Project Change Summary</u>										
<p>\$19.8M in funding was reallocated internally within this PE from Other Procurement, Air Force (OPAF) to RDT&E appropriation to support Cluster 1 TACP-M link-16 development. This reallocation was driven by an AF independent cost estimate on this Army led development.</p>										
(U) <u>C. Other Program Funding Summary (\$ in Thousands)</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>Complete</u>		
(U) AF RDT&E										
(U) Other APPN	19,695	18,062	12,050	11,693	6,738	18,933	19,366	Continuing	TBD	
(U) <u>D. Acquisition Strategy</u>										
All major contracts within this Program Element and BPACS will be awarded after full and open competition										
(U) <u>E. Schedule Profile</u>										
		<u>FY 2001</u>				<u>FY 2002</u>			<u>FY 2003</u>	
		1	2	3	4	1	2	3	4	
(U) VCS JTRS Cluster I RFP Release						X				
(U) VCS JTRS Cluster I Contract Award							X			
(U) VCS JTRS Radio Development begins							X			
(U) Integration activities							X			
(U) Start operational test planning								X		
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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE February 2002					
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0207423F Advanced Communications Systems				PROJECT 4934				
(U) <u>E. Schedule Profile Continued</u>												
		<u>FY 2001</u>				<u>FY 2002</u>				<u>FY 2003</u>		
	1	2	3	4	1	2	3	4	1	2	3	4
'X' Activity has not been completed												
Project 4934				Page 12 of 13 Pages				Exhibit R-2A (PE 0207423F)				

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 2002			
BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT		
07 - Operational System Development					0207423F Advanced Communications Systems				4934		
(U) <u>A. Project Cost Breakdown (\$ in Thousands)</u>											
						<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>	
(U)	Engineering Support							2,771		2,929	
(U)	VCS JTRS Compliant Radio Development							3,300		16,558	
(U)	Software development and System Integration							2,700		9,316	
(U)	Travel							150		130	
(U)	Test							205		200	
(U)	Total							9,126		29,133	
(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>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	
										<u>Total</u>	
	<u>Product Development Organizations</u>										
	ESC / CECOM Cluster I	CPAF	TBD	TBD	TBD	0	0	3,300	16,658	Continuing	TBD
	ESC Sys Int Software Dev't	TBD	TBD	TBD	TBD			2,700	9,216	Continuing	TBD
	<u>Support and Management Organizations</u>										
	ESC	FFP	Varies			0	0	2,921	3,059	Continuing	TBD
	<u>Test and Evaluation Organizations</u>										
	JITC / 605th TS / 46th TS					0	0	205	200	Continuing	TBD
						<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 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>
	Subtotal Product Development					0	0	6,000	25,874	TBD	TBD
	Subtotal Support and Management					0	0	2,921	3,059	TBD	TBD
	Subtotal Test and Evaluation					0	0	205	200	TBD	TBD
	Total Project					0	0	9,126	29,133	TBD	TBD