

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2002	
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604280F JOINT TACTICAL RADIO SYSTEMS (JTRS)				PROJECT 5068	
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
5068 Joint Tactical Radio System (JTRS)	0	0	17,358	10,984	36,247	8,165	63,839	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0

(U) **A. Mission Description**
 Joint Tactical Radio System (JTRS) is the Department of Defense family of common software-defined programmable radios, that will form the foundation of information radio frequency transmission for Joint Vision 2020. JTRS will eventually replace all existing tactical radios through the Services' migration plans and introduce new capabilities to the warfighter. A common radio architecture and programmable software waveforms will provide joint interoperability for the Services. The JTRS program is built around an open system Software Communications Architecture (SCA), which allows common software waveform applications to be implemented across the family of radios. The Air Force (AF) is establishing an acquisition program office and pursuing as the Service lead for the JTRS Airborne Cluster. The Airborne Cluster will address all Services' requirements for JTRS radios in Airborne Platforms to include the AF. Additional AF JTRS requirements such as; handheld and fixed station will be met by collaboration with other services' JTRS clusters.

(U) **FY 2001 (\$ in Thousands)**
 (U) \$0 No Activity
 (U) \$0 Total

(U) **FY 2002 (\$ in Thousands)**
 (U) \$0 No Activity
 (U) \$0 Total

(U) **FY 2003 (\$ in Thousands)**
 (U) \$11,977 Initial JTRS airborne and unique Air Force development requirements
 (U) \$5,207 Planning of AF JTRS Developmental and Integrated Test
 (U) \$174 Software development and system integration requirement to port JTRS SCA waveforms
 (U) \$17,358 Total

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<p>(U) <u>B. Budget Activity Justification</u> This program is in budget activity 5 (Engineering Manufacturing and Development) because it supports development and integration of solutions.</p> <p>(U) <u>C. Program Change Summary (\$ in Thousands)</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%; text-align: center;"><u>FY 2001</u></th> <th style="width: 10%; text-align: center;"><u>FY 2002</u></th> <th style="width: 10%; text-align: center;"><u>FY 2003</u></th> <th style="width: 10%; text-align: center;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget</td> <td></td> <td></td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>(U) Appropriated Value</td> <td></td> <td></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. 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Other Program Funding Summary (\$ in Thousands)</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;"></th> <th style="width: 8%; text-align: center;"><u>FY 2001</u></th> <th style="width: 8%; text-align: center;"><u>FY 2002</u></th> <th style="width: 8%; text-align: center;"><u>FY 2003</u></th> <th style="width: 8%; text-align: center;"><u>FY 2004</u></th> <th style="width: 8%; text-align: center;"><u>FY 2005</u></th> <th style="width: 8%; text-align: center;"><u>FY 2006</u></th> <th style="width: 8%; text-align: center;"><u>FY 2007</u></th> <th style="width: 10%; text-align: center;"><u>Cost to</u></th> <th style="width: 10%; text-align: center;"><u>Total Cost</u></th> </tr> <tr> <th></th> <th style="text-align: center;"><u>Actual</u></th> <th style="text-align: center;"><u>Estimate</u></th> <th style="text-align: center;"><u>Estimate</u></th> <th style="text-align: center;"><u>Estimate</u></th> <th style="text-align: center;"><u>Estimate</u></th> <th style="text-align: center;"><u>Estimate</u></th> <th style="text-align: center;"><u>Estimate</u></th> <th style="text-align: center;"><u>Complete</u></th> <th></th> </tr> </thead> <tbody> <tr> <td>(U) AF RDT&E</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">Continuing</td> <td></td> </tr> <tr> <td>(U) Other APPN</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">14,852</td> <td style="text-align: center;">121,464</td> <td style="text-align: center;">Continuing</td> <td style="text-align: center;">Continuing</td> </tr> <tr> <td>(U) PE 27423F Advanced Communications Systems - Operations and Maintenance</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">13,131</td> <td style="text-align: center;">Continuing</td> <td style="text-align: center;">Continuing</td> </tr> <tr> <td>(U) PE 27423F Advanced Communications Systems - Aircraft Procurement</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">1,865</td> <td style="text-align: center;">17,652</td> <td style="text-align: center;">211,797</td> <td style="text-align: center;">381,312</td> <td style="text-align: center;">Continuing</td> <td style="text-align: center;">Continuing</td> </tr> </tbody> </table> <p>(U) <u>E. Acquisition Strategy</u> All major contracts within this Program Element and BPACs will be awarded after full and open competition.</p>											<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>	(U) Previous President's Budget			0		(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. 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DATE

February 2002

BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT

05 - Engineering and Manufacturing Development

0604280F JOINT TACTICAL RADIO SYSTEMS (JTRS) 5068

(U) F. Schedule Profile

	<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) Airborne Cluster RFP Release											X	
(U) Airborne Cluster Contract Award												X
(U) Start System Deveopment and Demonstration Phase												X

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)						DATE February 2002	
BUDGET ACTIVITY			PE NUMBER AND TITLE			PROJECT	
05 - Engineering and Manufacturing Development			0604280F JOINT TACTICAL RADIO SYSTEMS (JTRS)			5068	
(U) A. Project Cost Breakdown (\$ in Thousands)							
			FY 2001		FY 2002		FY 2003
(U)	AF JTRS development and cluster contribution for AF unique requirement		0		0		11,977
(U)	Integration test planning		0		0		5,207
(U)	Software development and system integration to port JTRS SCA waveforms		0		0		174
(U)	Total		0		0		17,358
			Total Prior	Budget	Budget	Budget	Budget to
			to FY 2001	FY 2001	FY 2002	FY 2003	Complete
Subtotals			Total				
Subtotal Product Development							
Subtotal Support and Management							
Subtotal Test and Evaluation							
Total Project			TBD				

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