

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2002		
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0207247F Air Force TENCAP				PROJECT 0001		
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
0001	Air Force TENCAP	14,779	12,689	10,496	10,672	10,866	11,068	11,278	Continuing	TBD
Quantity of RDT&E Articles		0	0	0	0	0	0	0	0	0
<p>(U) <u>A. Mission Description</u></p> <p>The Air Force Tactical Exploitation of National Capabilities (AF TENCAP) program was established in 1977 per Congressional direction and is a non-traditional acquisition program. AF TENCAP pursues seamless integration of space systems capabilities into military operations for tactical use by warfighters, expediting improvements to Air Force combat capabilities through rapid-prototyping projects, operational concept demonstrations, and transitions to the warfighter customer. Additionally, AF TENCAP-developed equipment is deployed in support of real-world contingency operations.</p> <p>AF TENCAP leverages investments in space systems for tactical warfighter use in three ways:</p> <ol style="list-style-type: none"> 1) Exploiting existing space systems for tactical applications, conceiving and demonstrating capabilities to exploit these systems through rapid-prototyping projects. 2) Influencing the design and operation of new space systems for warfighters by advocating tactical applications and missions for them (in the form of analyses and integration of space systems into roadmaps and architectures for Air Force weapons and C4I systems). 3) Supporting education and training of operational forces in emerging space/space-related technologies and concepts, as well as education of national providers about operational user requirements and environments, through participation in combat and contingency operations, exercises, and project demonstrations. <p>AF TENCAP efforts described in the individual years FY 2001, FY 2002 and FY 2003 are categorized in generalized groups containing the start, continuation and completion of one-to-two-year projects which are then transitioned to the user. This process is reflected in the Schedule Profile.</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u></p> <p>(U) \$8,131 Exploited existing space systems for tactical applications; influence the design of future space systems; support education and training of operational forces</p> <p>(U) \$1,878 Space Long Range Planning (SLRP)</p> <p>(U) \$4,000 Hyperspectral imagery sensor research, development, and testing (per FY 2001 Congressional direction)</p> <p>(U) \$300 Transitioned AF TENCAP concept demonstrations to operational units/acquisition agency</p> <p>(U) \$470 Provided program support</p>										

Project 0001

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Exhibit R-2 (PE 0207247F)

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BUDGET ACTIVITY		PE NUMBER AND TITLE		PROJECT		
07 - Operational System Development		0207247F Air Force TENCAP		0001		
(U) <u>A. Mission Description Continued</u>						
(U) <u>FY 2001 (\$ in Thousands) Continued</u>						
(U)	\$14,779	Total				
(U) <u>FY 2002 (\$ in Thousands)</u>						
(U)	\$8,213	Exploit existing space systems for tactical applications; influence the design of future space systems; support education and training of operational forces				
(U)	\$2,000	GPS Jammer detection and location system (GPS-JLOC)				
(U)	\$1,749	Continue transition of AF TENCAP concept demonstrations to operational units/acquisition agency				
(U)	\$727	Provide program support				
(U)	\$12,689	Total				
(U) <u>FY 2003 (\$ in Thousands)</u>						
(U)	\$8,621	Exploit existing space systems for tactical applications; influence the design of future space systems; support education and training of operational forces				
(U)	\$1,200	Continue transition of AF TENCAP concept demonstrations to operational units/acquisition agency				
(U)	\$675	Provide program support				
(U)	\$10,496	Total				
(U) <u>B. Budget Activity Justification</u>						
Since this effort supports fielded systems, it is in Budget Activity 7, Operational Systems Development.						
(U) <u>C. Program Change Summary (\$ in Thousands)</u>						
			<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>
(U)	Previous President's Budget		13,669	10,811	10,534	TBD
(U)	Appropriated Value		13,826	12,811		
(U)	Adjustments to Appropriated Value					
	a. Congressional/General Reductions		-97	-122		
	b. Small Business Innovative Research		-948			
	c. Omnibus or Other Above Threshold Reprogram					
	d. Below Threshold Reprogram		2,028			

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07 - Operational System Development				0207247F Air Force TENCAP			0001			
(U) <u>C. Program Change Summary (\$ in Thousands) Continued</u>										
				<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>			
e. Rescissions				-30						
(U) Adjustments to Budget Years Since FY 2002 PBR						-38				
(U) Current Budget Submit/FY 2003 PBR				14,779	12,689	10,496		TBD		
(U) <u>Significant Program Changes:</u>										
FY01: \$150K for Schriever 2001 Space War Game database development, model runs, and results analysis. \$2 million for Space Long Range Planning studies and analyses.										
FY02: \$2000K for GPS JLOC.										
(U) <u>D. 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) Other APPN		195	197	196	200	203	207	211	Continuing	TBD
		Other Procurement, Air Force funding in 'Intelligence Communications Equipment,' WSC 832070								
(U) <u>E. Acquisition Strategy</u>										
Cost plus award fee contracts with indefinite delivery and quantity contract vehicles available to AF TENCAP. Theater MAJCOM mission area plan (MAP) deficiencies provide the requirements for AF TENCAP development projects. Each project must correct a MAP deficiency or deficiencies and be approved by the Space Warfare Center (SWC) Strategic Planning Process. In addition, theater MAJCOMs must be willing to assume future acquisition and logistics responsibilities, budgeting for projects in their Program Objective Memorandum submissions.										
(U) <u>F. Schedule Profile</u>										
				<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>				

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(U) <u>F. 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		
(U) FY 2001 Projects Authorized to Proceed	*													
(U) FY 2002 Projects Identified		*												
(U) Contractor Proposals for FY 2002 Projects				*										
(U) FY 2002 Projects Evaluated and Approved					*									
(U) FY 2002 Projects Authorized to Proceed						X								
(U) FY 2003 Projects Identified						X								
(U) Contractor Proposals for FY 2003 Projects								X						
(U) FY 2003 Projects Evaluated and Approved								X						
(U) FY 2003 Projects Authorized to Proceed									X					
(U) FY 2004 Projects Identified											X			
(U) Contractor Proposals for FY 2004												X		
(U) FY 2004 Projects Evaluated and Approved												X		
* = Completed Event														
X = Planned Event														
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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					0207247F Air Force TENCAP			0001		
(U) A. Project Cost Breakdown (\$ in Thousands)										
						<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>
(U)	Exploiting existing space systems; influencing future systems; supporting education and training					8,131		8,213		8,621
(U)	Space Long Range Planning					1,878				
(U)	Hyperspectral imagery sensor research, development and testing (per FY 2000 and FY 2001 Congressional direction)					4,000		0		
(U)	GPS-JLOC							2,000		
(U)	Transitioning concept demonstrations to operational units/acquisition agency					300		1,749		1,200
(U)	Program support					470		727		675
(U)	Total					14,779		12,689		10,496
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)										
(U) Performing Organizations:										
<u>Contractor or Government</u>	<u>Contract Method/Type</u>	<u>Award or Obligation Date</u>	<u>Performing Activity</u>	<u>Project Office</u>	<u>Total Prior to FY 2001</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget FY 2003</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>						
<u>Product Development Organizations</u>										
Lockheed Martin	C/CPAF	Sept 95	42,494	42,494	42,494	0	0	0	0	42,494
EADDS II Contract*	C/CPAF	Aug 00	Continuing	Continuing	105	6,452	7,745	7,501	Continuing	TBD
APTI	**	**	4,213	4,213	1,951	2,262	0	0		4,213
General Atomics	***	***			395	1,000	0	0		1,395
Multiple	Various	Multiple	Continuing	Continuing	24,478	3,817	2,938	919	Continuing	TBD
* Science Applications International Corporation (SAIC), Computer Science Corporation (CSC), and SPARTA (a group of small businesses) are the prime contractors for the Engineering Analysis Design & Development II contract that now serves as the primary AF TENCAP contract vehicle.										
**FY00 funds were obligated on a classified Navy TENCAP contract. FY01 funds placed on GSA contract.										
***Funds obligated on a classified Big Safari contract.										
<u>Support and Management Organizations</u>										
Program Oversight	Various	Multiple	Continuing	Continuing	2,400	1,248	2,006	2,076	Continuing	TBD

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07 - Operational System Development					0207247F Air Force TENCAP			0001	
(U) <u>Performing Organizations Continued:</u>									
<u>Test and Evaluation Organizations</u>									
Not Applicable									
(U) <u>Government Furnished Property:</u>									
	<u>Contract</u>								
	<u>Method/Type</u>	<u>Award or</u>							
<u>Item</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Delivery</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</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 Property</u>									
None									
<u>Support and Management Property</u>									
None									
<u>Test and Evaluation Property</u>									
None									
				<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				69,423	13,531	10,683	8,420	TBD	TBD
Subtotal Support and Management				2,400	1,248	2,006	2,076	TBD	TBD
Subtotal Test and Evaluation									
Total Project				71,823	14,779	12,689	10,496	TBD	TBD