

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

February 2003

BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0207247F Air Force TENCAP

PROJECT

0001

COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
0001 Air Force TENCAP	11,856	15,066	10,479	10,701	10,800	10,985	11,143	11,292	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

(U) **A. Mission Description**

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.

AF TENCAP leverages investments in space systems for tactical warfighter use in three ways:

- 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 Command, Control, Communications, Computers, Intelligence [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.

AF TENCAP efforts described in the individual years FY 2002, FY 2003 and FY2004 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.

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

- (U) \$0 Accomplishments/Planned Program
- (U) \$8,755 Exploit existing space systems for tactical applications through one-two year rapid-prototyping projects (addresses critical short-term warfighter needs and provides tactical applications to supply otherwise unavailable capabilities); identify, advocate, and influence the design and operation of future space systems for tactical applications and missions; support education and training of operational forces by conducting specialized training that enhances education of warfighters about the capabilities and tactical utility of national systems
- (U) \$1,860 GPS Jammer detection and location system (GPS-JLOC)
- (U) \$563 Continued transition of AF TENCAP concept demonstrations to operational units/acquisition agency

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BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
07 - Operational System Development	0207247F Air Force TENCAP	0001
<p>(U) <u>A. Mission Description Continued</u></p> <p>(U) <u>FY 2002 (\$ in Thousands) Continued</u></p> <p>(U) \$678 Provided program support and other government support</p> <p>(U) \$11,856 Total</p> <p>(U) <u>FY 2003 (\$ in Thousands)</u></p> <p>(U) \$0 Accomplishments/Planned Program</p> <p>(U) \$8,895 Exploit existing space systems for tactical applications through one-two year rapid-prototyping projects (addresses critical short-term warfighter needs and provides tactical applications to supply otherwise unavailable capabilities); identify, advocate, and influence the design and operation of future space systems for tactical applications and missions; support education and training of operational forces by conducting specialized training that enhances education of warfighters about the capabilities and tactical utility of national systems</p> <p>(U) \$2,763 GPS Jammer detection and location system (GPS-JLOC)</p> <p>(U) \$1,658 Begin adverse weather imaging system (FOGLITE)</p> <p>(U) \$1,200 Continue transition of AF TENCAP concept demonstrations to operational units/acquisition agency</p> <p>(U) \$550 Provided program support and other government support</p> <p>(U) \$15,066 Total</p> <p>(U) <u>FY 2004 (\$ in Thousands)</u></p> <p>(U) \$0 Accomplishments/Planned Program</p> <p>(U) \$8,875 Exploit existing space systems for tactical applications through one-two year rapid-prototyping projects (addresses critical short-term warfighter needs and provides tactical applications to supply otherwise unavailable capabilities); identify, advocate, and influence the design and operation of future space systems for tactical applications and missions; support education and training of operational forces by conducting specialized training that enhances education of warfighters about the capabilities and tactical utility of national systems</p> <p>(U) \$1,220 Continue transition of AF TENCAP concept demonstrations to operational units/acquisition agency</p> <p>(U) \$384 Provide program support and other government support</p> <p>(U) \$10,479 Total</p> <p>(U) <u>B. Budget Activity Justification</u></p> <p>This program is in Budget Activity 7, Operational Systems Development, due to its efforts supporting fielded units.</p>		
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BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT				
07 - Operational System Development				0207247F Air Force TENCAP			0001				
(U) C. Program Change Summary (\$ in Thousands)											
		<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Total Cost</u>						
(U)	Previous President's Budget	12,689	10,496	10,672	TBD						
(U)	Appropriated Value	12,811	15,296								
(U)	Adjustments to Appropriated Value										
	a. Congressional/General Reductions	-122	-162								
	b. Small Business Innovative Research	-775									
	c. Omnibus or Other Above Threshold Reprogram			-68							
	d. Below Threshold Reprogram										
	e. Rescissions	-58									
(U)	Adjustments to Budget Years Since FY 2003 PBR				-193						
(U)	Current Budget Submit/FY 2004 PBR	11,856	15,066	10,479	TBD						
(U)	<u>Significant Program Changes:</u>										
	Significant Program Changes (funding, schedule, and/or technical parameter): None										
(U) D. Other Program Funding Summary (\$ in Thousands)											
		<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>FY 2008</u>	<u>FY 2009</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 APPN	196	184	194	197	200	204	207	211	Continuing	TBD
	Other Procurement, Air										
	Force funding in 'Intelligence										
	Communications										
	Equipment,' WSC 832070										
(U) E. Acquisition Strategy											
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.											

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(U) **F. Schedule Profile**

	<u>FY 2002</u>				<u>FY 2003</u>				<u>FY 2004</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) FY 2002 Projects Evaluated and Approved	*											
(U) FY 2002 Projects Authorized to Proceed		*										
(U) FY 2003 Projects Identified		*										
(U) Contractor Proposals for FY 2003 Projects				*								
(U) FY 2003 Projects Evaluated and Approved				*								
(U) FY 2003 Projects Authorized to Proceed					*							
(U) FY 2004 Projects Identified						X						
(U) Contractor Proposals for FY 2004								X				
(U) FY 2004 Projects Evaluated and Approved								X				
(U) FY 2004 Projects Authorized to Proceed									X			
(U) FY 2005 Projects Identified										X		
(U) Contractor Proposals for FY 2005												X
(U) FY 2005 Projects Evaluated and Approved												X

* = Completed Event

X = Planned Event

Narrative: N/A

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2003			
BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT	
07 - Operational System Development					0207247F Air Force TENCAP				0001	
(U) <u>A. Project Cost Breakdown (\$ in Thousands)</u>										
						<u>FY 2002</u>		<u>FY 2003</u>		<u>FY 2004</u>
(U)	Exploiting existing space systems; influencing future systems; supporting education and training					8,755		8,895		8,875
(U)	GPS JLOC					1,860		2,763		
(U)	FOGLITE							1,658		
(U)	Transitioning concept demonstrations to operational units/acquisition agency					563		1,200		1,220
(U)	Program support					678		550		384
(U)	Total					11,856		15,066		10,479
(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 2002</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Complete</u>	<u>Program</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	6,557	3,522	2,038	2,100	Continuing	TBD
APTI	**	**	4,213	4,213	4,213	0	0	0	1,951	6,164
General Atomics	***	***			1,395		1,658	1,000	Continuing	TBD
NAVSYS	FFP	Aug 02			0	1,860	2,763			4,623
Multiple	Various	Multiple	Continuing	Continuing	28,295	4,614	7,157	6,096	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	3,648	1,860	1,450	1,283	Continuing	TBD
<u>Test and Evaluation Organizations</u>										
Not Applicable										
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BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT	
07 - Operational System Development				0207247F Air Force TENCAP				0001	
(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 2002</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</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 2002</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development				82,954	9,996	13,616	9,196	TBD	TBD
Subtotal Support and Management				3,648	1,860	1,450	1,283	TBD	TBD
Subtotal Test and Evaluation									
Total Project				86,602	11,856	15,066	10,479	TBD	TBD

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