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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE June 2001		
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0207247F Air Force TENCAP					PROJECT 0001		
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
0001	Air Force TENCAP	14,704	13,699	10,811	10,534	10,751	10,975	11,200	11,437	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

NOTE: This administration has not addressed FY 2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

(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 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.

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

(U) \$10,081 Exploited existing space systems for tactical applications; influenced design of future space systems; supported education and training of operational forces

(U) \$2,758 Developed and tested hyperspectral imagery sensors and exploitation tools (per FY 2000 Congressional direction)

(U) \$1,053 Transitioned AF TENCAP concept demonstrations to field

(U) \$158 Contract bridge activities

(U) \$654 Provided program support

(U) \$14,704 Total

The following net transaction is not reflected in the FY00 program total: BTR = +\$216K. This transaction is not reflected in other sections of the R-DOCs where an FY00 total is shown.

UNCLASSIFIED

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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)</u>					
(U)	\$8,579	Exploit existing space systems for tactical applications; influence the design of future space systems; support education and training of operational forces			
(U)	\$4,000	Hyperspectral imagery sensor research, development, and testing (per FY 2001 Congressional direction)			
(U)	\$405	Transition AF TENCAP concept demonstrations to operational units/acquisition agency			
(U)	\$715	Provide program support			
(U)	\$13,699	Total			
The following net transactions are not reflected in the FY01 program total: BTR: = +\$2150K, and SBIR = -\$948K. These transactions are not reflected in other sections of the R-DOCs where an FY01 total is shown.					
(U) <u>FY 2002 (\$ in Thousands)</u>					
(U)	\$8,334	Exploit existing space systems for tactical applications; influence the design of future space systems; support education and training of operational forces			
(U)	\$1,750	Transition AF TENCAP concept demonstrations to field			
(U)	\$727	Provide program support			
(U)	\$10,811	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 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Total Cost</u>
(U)	Previous President's Budget (FY 2001 PBR)	12,929	9,826	10,779	TBD
(U)	Appropriated Value	13,102	13,826		
(U)	Adjustments to Appropriated Value				
	a. Congressional/General Reductions	-102	-97		
	b. Small Business Innovative Research	-476			
	c. Omnibus or Other Above Threshold Reprogram	-208			
	d. Below Threshold Reprogram	2,439			
	e. Rescissions	-51	-30		
Project 0001		Page 2 of 6 Pages	Exhibit R-2 (PE 0207247F)		

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							June 2001				
BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT				
07 - Operational System Development				0207247F Air Force TENCAP			0001				
(U) C. Program Change Summary (\$ in Thousands) Continued											
				<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>		<u>Total Cost</u>			
(U)	Adjustments to Budget Years Since FY 2001 PBR					32					
(U)	Current Budget Submit/FY 2002 PBR			14,704	13,699	10,811		TBD			
(U) Significant Program Changes:											
FY 00: Reprogramming supports AF TENCAP project development/demonstration in conjunction with Joint Expeditionary Force Experiment 2000 and the Air Force Space Game											
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.											
FY 2002-and beyond: Adjustments support higher Air Force priorities.											
(U) D. Other Program Funding Summary (\$ in Thousands)											
		<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)	Other APPN	192	195	197	196	199	203	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 AF TENCAP O-6 (Colonel) Review Group. In addition, theater MAJCOMs must be willing to assume future acquisition and logistics responsibilities, budgeting for projects in their Program Objective Memorandum submissions.											
(U) F. Schedule Profile											
				<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>			

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(U) F. Schedule Profile Continued													
		<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) FY 2000 Projects Authorized to Proceed	*												
(U) Contractor Proposals for FY 2001 Projects				*									
(U) FY 2001 Projects Evaluated and Approved				*									
(U) FY 2001 Projects Authorized to Proceed					*								
(U) FY 2002 Projects Identified						*							
(U) Contractor Proposals for FY 2002 Projects								X					
(U) FY 2002 Projects Evaluated and Approved								X					
(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	
* = Completed Event													
X = Planned 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 0207247F Air Force TENCAP			PROJECT 0001		
(U) A. Project Cost Breakdown (\$ in Thousands)										
					<u>FY 2000</u>		<u>FY 2001</u>			<u>FY 2002</u>
(U)	Exploiting existing space systems; influencing future systems; supporting education and training				10,081		8,579			8,334
(U)	Hyperspectral imagery sensor research, development and testing (per FY 2000 and FY 2001 Congressional direction)				2,758		4,000			0
(U)	Transitioning concept demonstrations to operational units/acquisition agency				1,053		405			1,750
(U)	Contract bridge activities				158					
(U)	Program support				654		715			727
(U)	Total				14,704		13,699			10,811
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)										
(U) Performing Organizations:										
<u>Contractor or Government Performing Activity</u>	<u>Contract Method/Type or Funding Vehicle</u>	<u>Award or Obligation Date</u>	<u>Performing Activity EAC</u>	<u>Project Office EAC</u>	<u>Total Prior to FY 2000</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Product Development Organizations</u>										
Not Applicable										
<u>Support and Management Organizations</u>										
Lockheed Martin	C/CPAF	Sept 95	42,494	42,494	36,424	6,070	0	0	0	42,494
EADDS II Contract*	C/CPAF	Aug 00	Continuing	Continuing	0	105	8,865	8,446	Continuing	TBD
APTI	**	**	3,951	3,951	0	1,951	2,000	0	0	3,951
General Atomics	***	***				395	1,000			1,395
Multiple	Various	Multiple	Continuing	Continuing	20,695	6,183	1,834	2,365	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>Test and Evaluation Organizations</u>										
Not Applicable										

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BUDGET ACTIVITY							June 2001	
07 - Operational System Development				PE NUMBER AND TITLE			PROJECT	
				0207247F Air Force TENCAP			0001	
(U) Government Furnished Property:								
	<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>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>	<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</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>Subtotals</u>				<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>
Subtotal Product Development								
Subtotal Support and Management				57,119	14,704	13,699	10,811	TBD
Subtotal Test and Evaluation								
Total Project				57,119	14,704	13,699	10,811	TBD