PE NUMBER: 0207247F
PE TITLE: Air Force TENCAP

Exhibit R-2, RDT&E Budget Item Justification

DATE
February 2004

BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0207247F Air Force TENCAP

Cost ($ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	14.157	18.818	10.673	10.771	10.962	11.138	11.310	Continuing	TBD
0001 Air Force TENCAP	14.157	18.818	10.673	10.771	10.962	11.138	11.310	Continuing	TBD

(U) **A. Mission Description and Budget Item Justification**

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 2003, FY 2004, and FY 2005 are categorized by project status 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 (R-4).

This program is in Budget Activity 7, Operational System Development, due to its efforts supporting fielded units.

Exhibit R-2, RDT&E Budget Item Justification

DATE
February 2004

BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0207247F Air Force TENCAP

(U) B. Program Change Summary ($ in Millions)

		FY 2003	FY 2004	FY 2005
(U)	Previous President's Budget	15.066	10.479	10.701
(U)	Current PBR/President's Budget	14.157	18.818	10.673
(U)	Total Adjustments	-0.909	8.339	
(U)	Congressional Program Reductions		-0.161	
	Congressional Rescissions			
	Congressional Increases		8.500	
	Reprogrammings			
	SBIR/STTR Transfer	-0.909		

(U) Significant Program Changes:

Significant Program Changes (funding, schedule, and/or technical parameter): In FY04, funds were added to continue development of the Global Positioning System (GPS) Jammer Detection and Location (JLOC) and the Finding Obscured Ground objects using Laser Imaging of the Target (FOGLITE) projects.

Exhibit R-2a, RDT&E Project Justification

DATE **February 2004**

BUDGET ACTIVITY **07 Operational System Development**

PE NUMBER AND TITLE **0207247F Air Force TENCAP**

PROJECT NUMBER AND TITLE **0001 Air Force TENCAP**

Cost ($ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
0001 Air Force TENCAP	14.157	18.818	10.673	10.771	10.962	11.138	11.310	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

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.

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1) Exploiting existing space systems for tactical applications, conceiving and demonstrating capabilities to exploit these systems through rapid-prototyping projects.
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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 2003, FY 2004, and FY 2005 are categorized by project status 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 (R-4).

This program is in Budget Activity 7, Operational System Development, due to its efforts supporting fielded units.

(U) B. Accomplishments/Planned Program ($ in Millions)	FY 2003	FY 2004	FY 2005
(U) 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	8.319	9.945	10.293
(U) Complete GPS Jammer detection and location system (GPS-JLOC)	2.763	3.000	0.000
(U) Complete adverse weather imaging system (FOGLITE)	1.658	5.500	0.000
(U) Completed transition of AF TENCAP concept demonstrations to operational units/acquisition agency (transitioned to O&M under Space Warfare Center)	0.786	0.000	0.000
(U) Provide program support and other government support	0.631	0.373	0.380

Exhibit R-2a, RDT&E Project Justification		DATE February 2004
BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0207247F Air Force TENCAP	PROJECT NUMBER AND TITLE 0001 Air Force TENCAP

(U)	Total Cost						14.157	18.818	10.673

(U) C. Other Program Funding Summary ($ in Millions)

		FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
(U)	Other APPN Other Procurement, Air Force funding in 'Intelligence Communications Equipment,' WSC 832070, P-47	0.184	0.193	0.196	0.199	0.204	0.208	0.213	Continuing	TBD

(U) D. Acquisition Strategy

The AF TENCAP acquisition strategy utilizes a wide variety of solicitation/contract vehicles, to include, but not limited to, Broad Agency Announcement (BAA), General Services Administration (GSA), Cost Plus Fixed Fee (CPFF) and/or Cost Plus Award Fee (CPAF) contracts with Indefinite Delivery/Indefinite Quantity (IDIQ) contracts and existing vehicles typically 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, and budget for projects in their Program Objective Memorandum submissions.

Exhibit R-3, RDT&E Project Cost Analysis

DATE **February 2004**

BUDGET ACTIVITY **07 Operational System Development**

PE NUMBER AND TITLE **0207247F Air Force TENCAP**

PROJECT NUMBER AND TITLE **0001 Air Force TENCAP**

(U) Cost Categories (Tailor to WBS, or System/Item Requirements) ($ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2003 Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) Product Development												
Exploting existing space systems; influencing future systems; supporting education and training	C/CPAF	* EADDS II Contract	10.079	2.640	Dec-02	0.000		0.000		0.000	12.719	
FOGLITE	***	General Atomics, CA	1.395	1.942	Jan-03	5.500	Feb-04	0.000		0.000	8.837	
GPS JLOC	FFP	NAVSYS, CO	1.963	2.711	Mar-03	3.000	Feb-04	0.000		0.000	7.674	
Exploting existing space systems; influencing future systems; supporting education and training	****Various	Various	32.909	6.233	Dec-02	9.945	Jan-04	10.293	Jan-05	Continuing	TBD	
		*****									0.000	
Subtotal Product Development			46.346	13.526		18.445		10.293		Continuing	TBD	0.000

Remarks:
*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 served as the AF TENCAP primary contract vehicle through FY2003.
***Funds obligated on a classified Big Safari contract.
****Multiple contracts determined on annual basis in accordance with acquisition strategy and new Broad Area Announcement processes.

(U) Support												
Program Oversight	Various		5.508	0.631	Dec-02	0.373	Dec-03	0.380	Dec-04	Continuing	TBD	
Subtotal Support			5.508	0.631		0.373		0.380		Continuing	TBD	0.000
Remarks:												
(U) Test & Evaluation												
Not Applicable											0.000	
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Management												
Not Applicable											0.000	
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			51.854	14.157		18.818		10.673		Continuing	TBD	0.000

Exhibit R-4, RDT&E Schedule Profile

DATE
February 2004

BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT NUMBER AND TITLE
07 Operational System Development	**0207247F Air Force TENCAP**	**0001 Air Force TENCAP**

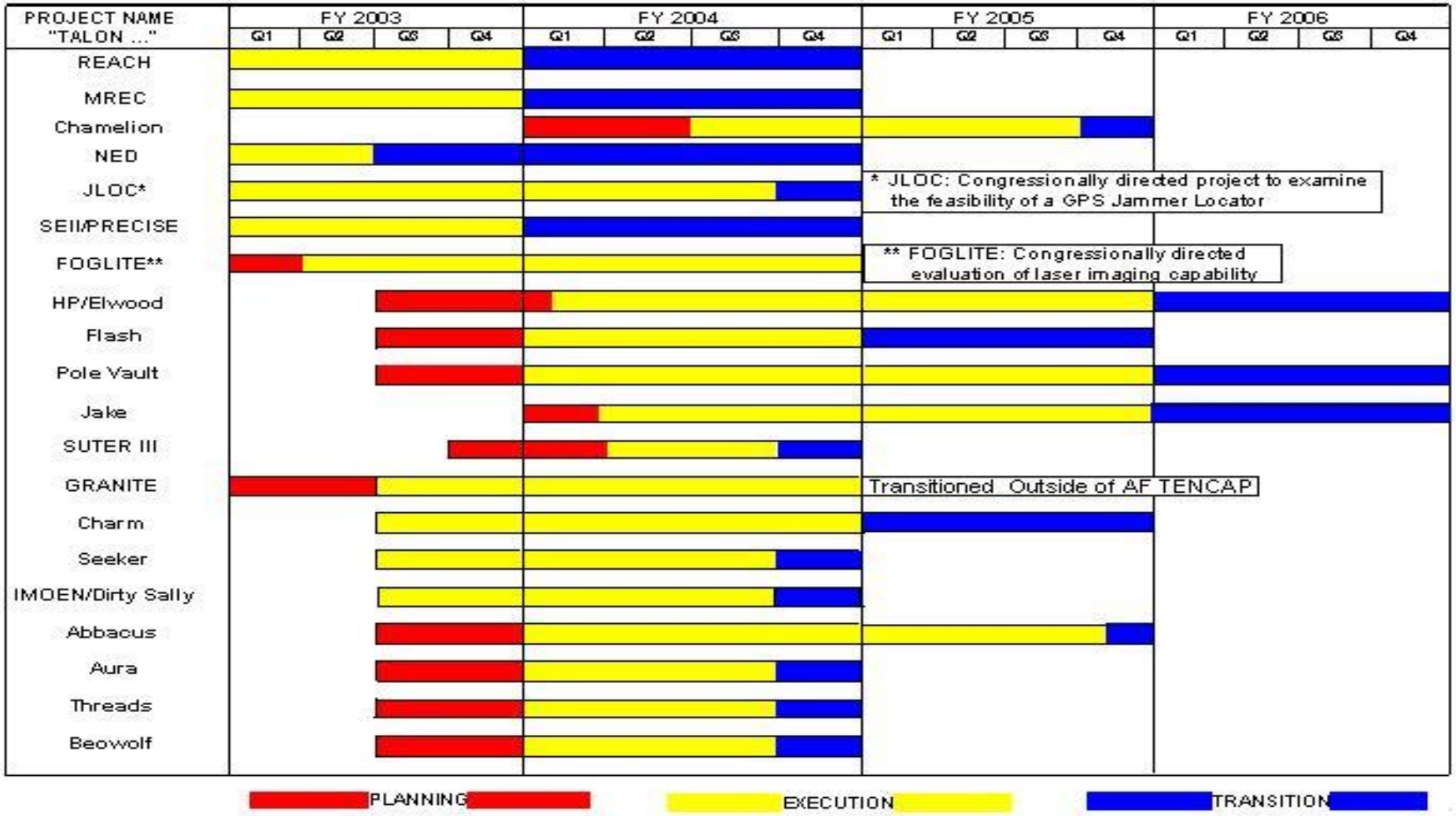

Exhibit R-4a, RDT&E Schedule Detail

DATE
February 2004

BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT NUMBER AND TITLE
07 Operational System Development	**0207247F Air Force TENCAP**	**0001 Air Force TENCAP**

(U) Schedule Profile	FY 2003	FY 2004	FY 2005
(U) FY 2003 Projects Evaluated and Approved	1Q		
(U) FY 2003 Projects Authorized to Proceed	1-2Q		
(U) FY 2004 Projects Identified	2Q		
(U) Contractor Proposals for FY 2004 Projects	3Q		
(U) FY 2004 Projects Evaluated and Approved	4Q		
(U) FY 2004 Projects Authorized to Proceed		1-2Q	
(U) FY 2005 Projects Identified		2-3Q	
(U) Contractor Proposals for FY 2005		3Q	
(U) FY 2005 Projects Evaluated and Approved		4Q	
(U) FY 2005 Projects Authorized to Proceed			1-2Q
(U) FY 2006 Projects Identified			2-3Q
(U) Contractor Proposals for FY 2006			3Q
(U) FY 2006 Projects Evaluated and Approved			4Q