PE NUMBER: 0207247F
PE TITLE: Air Force TENCAP

Ex	chibit R-2,	RDT&E Bu	ıdget Item	Justificat	tion			DATE	005	
BUDGET ACTIVITY 07 Operational System Development					BER AND TITLE 7F Air Force	=				
Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	17.651	18.112	10.829	11.067	11.314	11.508	11.764	11.952	Continuing	TBD
0001 Air Force TENCAP	17.651	18.112	10.829	11.067	11.314	11.508	11.764	11.952	Continuing	TBD

(U) A. Mission Description and Budget Item Justification

AF TENCAP serves as an Air Force-level program executed through the Space Warfare Center (SWC) with the warfighting MAJCOMs as its customers. As an integrated directorate within the SWC, AF TENCAP supports the overall SWC mission to advance Air Force, joint and combined space warfare through innovation, testing, tactics development and training. AF TENCAP is the Air Force lead for NTM exploitation for the tactical warrior and innovation to increase the efficiency and effectiveness of space-related activities to further integrate black and white space and connect the "last tactical mile" for the warfighter.

In August 1977, the Joint Appropriations Conference Report from Congress directed the Air Force and the Navy to establish a Tactical Exploitation of National Capabilities (TENCAP) program similar to what the Army instituted in 1973. AF TENCAP objectives comply with the original congressional intent to exploit space systems, National Technical Means (NTM) and related technologies for the warfighter.

The AF TENCAP mission increases warfighter awareness and tactical use of National Technical Means (NTMs) and other space systems through:

- 1) Exploiting current space systems, NTMs and related technologies to rapidly prototype and assist in the identification and definition of possible warfighter application. AF TENCAP is a non-traditional acquisition program that rapidly prototypes projects, validates proofs of concepts and demonstrates capabilities and transitions them to the warfigher.
- 2) Influencing the development of future space systems for tactical users by providing inputs into the capabilities and development cycle of national, military, commercial and civil space systems.
- 3) Educating and training operational forces about the concepts developed by AF TENCAP.

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

R-1 Shopping List - Item No. 138-2 of 138-10

Exhibit R-2, RDT&E Bu	dget Item Justification	tem Justification				
BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0207247F Air Force TENC	•				
(U) B. Program Change Summary (\$ in Millions)						
	<u>FY 2004</u>	FY 2005	FY 2006	FY 2007		
(U) Previous President's Budget	10.479	10.673	10.771	10.962		
(U) Current PBR/President's Budget	17.651	18.112	10.829	11.067		
(U) Total Adjustments	7.172	7.439				
(U) Congressional Program Reductions						
Congressional Rescissions	-0.161	-0.161				
Congressional Increases	8.500	7.600				
Reprogrammings						
SBIR/STTR Transfer	-1.167					
(U) Significant Program Changes:						

Significant Program Changes (funding, schedule, and/or technical parameter): In FY04 Congress added funds (\$8.5M) 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.

In FY05, \$7.6M in Congressional funding was 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.

R-1 Shopping List - Item No. 138-3 of 138-10

		Exhibit R-2	a, RDT&E	Project J	ustificatio	n			DATE	February 2	2005
	er ACTIVITY perational System Development					BER AND TITLE 7F Air Forc e			DJECT NUMBEI 11 Air Force		
	Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
0001	Air Force TENCAP	17.651	18.112	10.829	11.067	11.314	11.508	11.764	11.952	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

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- 3) Educating and training operational forces about the concepts developed by AF TENCAP.

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

(U)	B. Accomplishments/Planned Program (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
(U)	Exploit existing space systems, National Technical Means and related technologies for tactical	9.079	10.121	10.431	10.661
	applications through 12-18 month 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)	Complete GPS Jammer detection and location system (GPS-JLOC)	2.891	3.300	0.000	0.000
(U)	Complete adverse weather imaging system (FOGLITE)	5.298	4.300	0.000	0.000
(U)	Provide program support and other government support	0.383	0.391	0.398	0.406
(U)	Total Cost	17.651	18.112	10.829	11.067
Pr	oject 0001 R-1 Shopping List - Item No. 138-4 of 138-10			Exhibit R-2a (I	PF 0207247F)

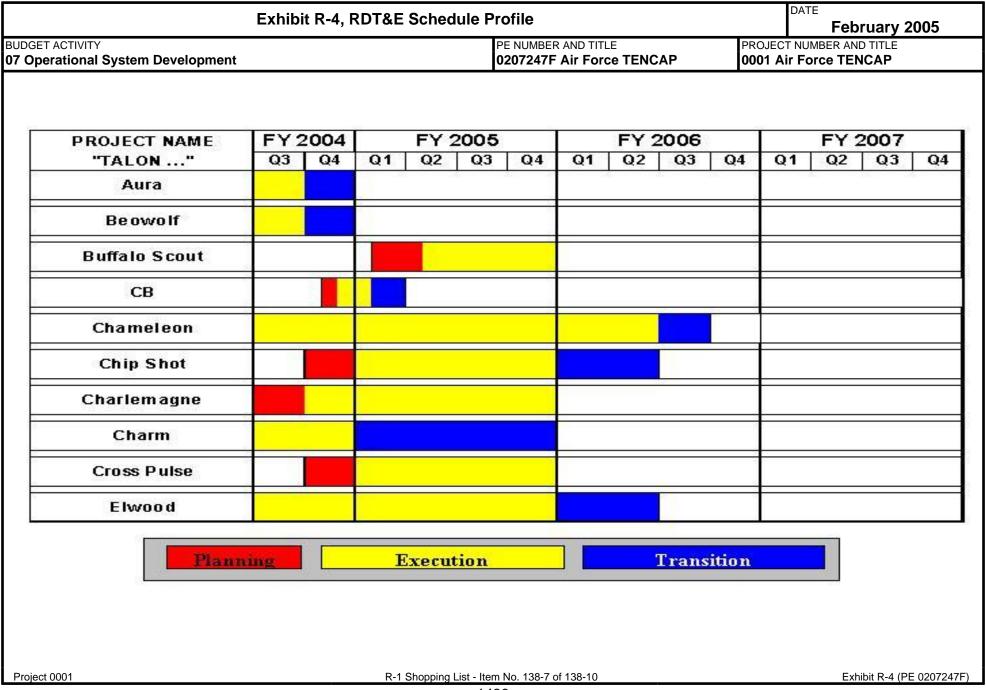
	Exhibit R-2a, RDT&E Project Justification										
BUDGET ACTIVITY 07 Operational System Develop	oment			•	UMBER AND TIT '247F Air Fo i			PROJECT NUMBER AND TITLE 0001 Air Force TENCAP			
(U) C. Other Program Funding St	C. Other Program Funding Summary (\$ in Millions)										
	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete To	otal Cost	
	<u>Actual</u>	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete 10	otal Cost	
Other APPN											
Other Procurement, Air Force											
(U) funding in 'Intelligence	1.442	0.195	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.637	
Communications Equipment,'											
WSC 832070, P-39											
Note: Beginning with FY06, ed	quipment funds t	ransferred to 3	400 funds.								

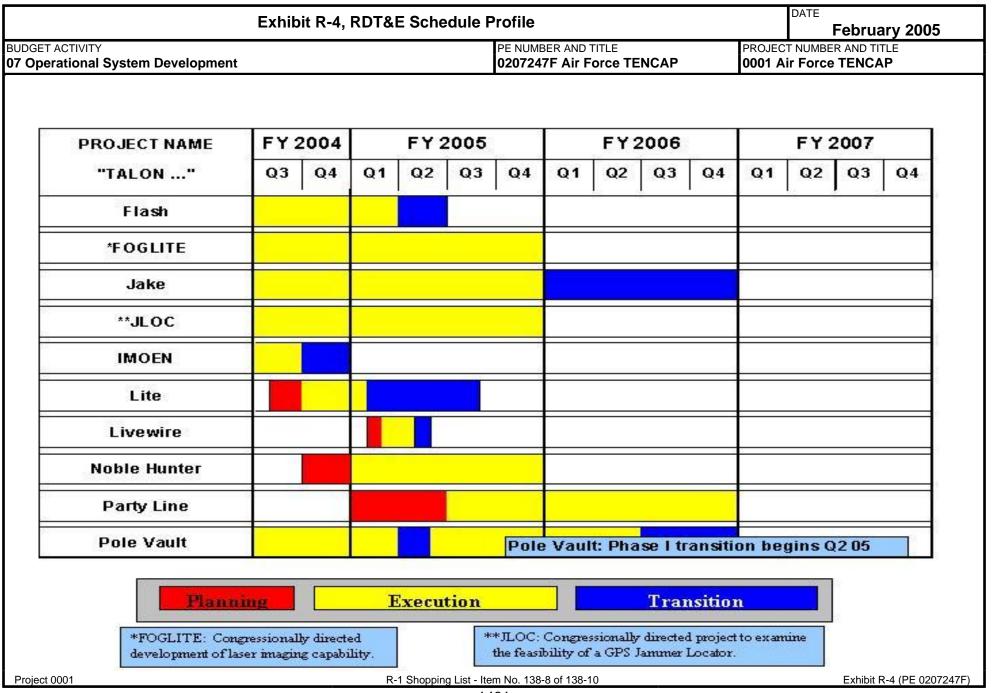
(U) D. Acquisition Strategy

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. Theater MAJCOM mission area plan (MAP) deficiencies provide the requirements for AF TENCAP development projects which are then approved by the Space Warfare Center (SWC) Strategic Planning Process. Theater MAJCOMs assume future acquisition and logistics responsibilities, and budget for projects in their Program Objective Memorandum submissions.

Project 0001 R-1 Shopping List - Item No. 138-5 of 138-10 Exhibit R-2a (PE 0207247F)

	Exhib	t R-3, RD	T&E Proj	ect Co	st Ana	lysis					DATE		uary 200)5
BUDGET ACTIVITY 07 Operational System Developme l	nt					IUMBER A 7247F A	ND TITLE ir Force	TENCA	Р			MBER AND T	TITLE	
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions) (U) Product Development	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2004 Cost	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete		Target Value of Contract
Exploiting existing space systems, National Technical Means and related technologies; influencing future systems; supporting education and training	*Various	Various	51.861	9.079	Jan-04	10.121	Jan-05	10.431	Dec-05	10.661	Dec-06	0.000	92.153	
FOGLITE GPS JLOC	CPFF CPFF	General Atomics, CA Navigation	3.337	5.298	May-04	4.300	Apr-05					0.000	12.935	
		Systems Corporation (NAVSYS), CO	4.674	2.891	Aug-04	3.300	Jun-05					0.000	10.865	
Subtotal Product Davidonment			59.872	17.268		17.721		10.431		10.661		Continuing	0.000	0.000
Subtotal Product Development Remarks: *Multiple contrac	ts determined	on annual basis			ion strategy		road Area A		ent processe			Continuing	IBD	0.000
(U) Support Program Oversight Subtotal Support Remarks:	Various		6.139 6.139	0.383 0.383	Dec-03	0.391 0.391	Dec-04	0.398 0.398	Dec-05	0.406 0.406	Dec-06	Continuing Continuing		0.000
(U) Test & Evaluation Not Applicable Subtotal Test & Evaluation Remarks:			0.000	0.000		0.000		0.000		0.000		0.000	0.000 0.000	0.000
(U) Management Not Applicable Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000 0.000	0.000
Remarks: (U) Total Cost			66.011	17.651		18.112		10.829		11.067		Continuing	TBD	0.000
Project 0001			R-1 Sho	opping List	- Item No.	138-6 of 1	38-10					Exhibi	it R-3 (PE 02	207247F)





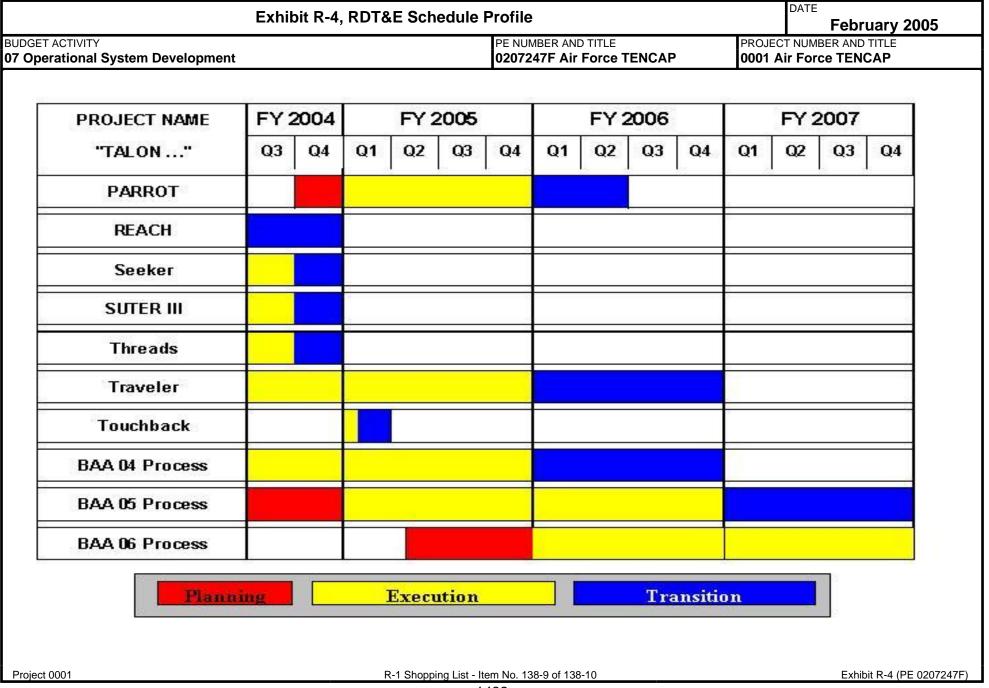


Exhibit F	DATE February	2005		
BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0207247F Air Force TENCA		ROJECT NUMBER AND TITLE 1001 Air Force TENCAP	
				1-2Q 2-3Q 3Q 4Q
Project 0001	R-1 Shopping List - Item No. 138-10 of 138-10		Exhibit R-4a	(PE 0207247F)