

**UNCLASSIFIED**

PE NUMBER: 0207247F  
 PE TITLE: Air Force TENCAP

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	DATE <b>February 2007</b>
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<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0207247F Air Force TENCAP</b>
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Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	11.660	11.160	11.526	11.750	12.022	12.193	12.428	12.681	Continuing	TBD
0001 Air Force TENCAP	11.660	11.160	11.526	11.750	12.022	12.193	12.428	12.681	Continuing	TBD

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

Air Force TENCAP is executed by the Space Innovation and Development Center at Schriever Air Force Base, Colorado. Established by Congress in 1977 as one of a family of service Tactical Exploitation of National Capabilities (TENCAP) programs, it increases the integration of national and space systems into service operations by:

- Exploiting existing national and space systems for tactical applications by conducting two- to eighteen-month rapid-prototyping technology projects, demonstrating the resulting capabilities in tests and exercises. It transitions these to warfighters for operational use or to other acquisition organizations for further development.
- Influencing the design and operation of future national and space systems for tactical applications by providing inputs into their development cycles.
- Educating and training operational forces about program activities and program-developed systems.

This program is in Budget Activity 7, Operational System Development, because its efforts develop capabilities to leverage operational systems in order to increase the effectiveness of tactical warfighting activities.

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	11.661	11.202	11.419	11.607
(U) Current PBR/President's Budget	11.660	11.160	11.526	11.750
(U) Total Adjustments	-0.001	-0.042		
(U) Congressional Program Reductions				
Congressional Rescissions	-0.001	-0.042		
Congressional Increases				
Reprogrammings				
SBIR/STTR Transfer				
(U) <u>Significant Program Changes:</u>				
None				

Exhibit R-2a, RDT&E Project Justification

DATE  
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BUDGET ACTIVITY <b>07 Operational System Development</b>					PE NUMBER AND TITLE <b>0207247F Air Force TENCAP</b>			PROJECT NUMBER AND TITLE <b>0001 Air Force TENCAP</b>		
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
0001 Air Force TENCAP	11.660	11.160	11.526	11.750	12.022	12.193	12.428	12.681	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

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

Air Force TENCAP is executed by the Space Innovation and Development Center at Schriever Air Force Base, Colorado. Established by Congress in 1977 as one of a family of service Tactical Exploitation of National Capabilities (TENCAP) programs, it increases the integration of national and space systems into service operations by:

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(U) **B. Accomplishments/Planned Program (\$ in Millions)**

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Exploit existing space and national systems for tactical applications through rapid-prototyping projects; influence the design and operation of future systems; educate and train operational forces	9.700	10.683	11.032	11.239
(U) Conduct Global Positioning System jammer detection and location (GPS JLOC) system projects	0.521	0.000	0.000	0.000
(U) Conduct adverse weather imaging system project (FOGLITE)	1.000	0.000	0.000	0.000
(U) Provide program support and other government support	0.439	0.477	0.494	0.511
(U) Total Cost	11.660	11.160	11.526	11.750

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) Not applicable										

(U) **D. Acquisition Strategy**

Projects are selected for development based upon needs identified by the program's customers - the Air Force's warfighting Major Commands - and approved via the Space Innovation and Development Center (SIDC) strategic planning process. Acquisition strategies for projects are chosen on a case-by-case basis for optimum results. Many projects are executed via existing contracts maintained by other agencies; others are executed via Air Force TENCAP contracts established with vendors responding to annual Broad Area Announcements issued by SIDC. In all cases the Department of Defense organization sponsoring a project is responsible for assuming acquisition, deployment, logistics, and budgetary responsibilities for the developed capability after it has been successfully demonstrated by Air Force

Exhibit R-2a, RDT&E Project Justification

DATE

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BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207247F Air Force TENCAP

PROJECT NUMBER AND TITLE

0001 Air Force TENCAP

TENCAP.

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Exhibit R-3, RDT&E Project Cost Analysis											DATE			
											February 2007			
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE						
07 Operational System Development				0207247F Air Force TENCAP				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 2006 Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) <u>Product Development</u>														
Exploiting existing systems through rapid-prototyping projects; influencing future systems; educating and training FOGLITE	Various	Various	173.517	9.700	Dec-05	10.683	Oct-06	11.032	Oct-07	11.239	Oct-08	Continuing	TBD	
	SS/CPFF	General Atomics, San Diego, CA	11.457	1.000	Jul-06	0.000		0.000		0.000		0.000	12.457	
GPS JLOC projects (including Nightshade and Namath)	SS/CPFF	NAVSYS Corp., Colorado Springs, CO	9.312	0.482	May-06	0.000		0.000		0.000		0.000	9.794	
GPS JLOC projects (Nightshade and Namath)	Various	Various	0.720	0.039	Feb-06	0.000						0.000	0.759	
Subtotal Product Development			195.006	11.221		10.683		11.032		11.239		Continuing	TBD	0.000
Remarks:														
(U) <u>Support</u>														
Program oversight	Various	Various	6.908	0.439	Dec-05	0.477	Nov-06	0.494	Dec-07	0.511	Dec-08	Continuing	TBD	
Subtotal Support			6.908	0.439		0.477		0.494		0.511		Continuing	TBD	0.000
Remarks:														
(U) <u>Test &amp; Evaluation</u>														
Not applicable													0.000	
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
Remarks:														
(U) <u>Management</u>														
Not applicable													0.000	
Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
Remarks:														
(U) Total Cost			201.914	11.660		11.160		11.526		11.750		Continuing	TBD	0.000

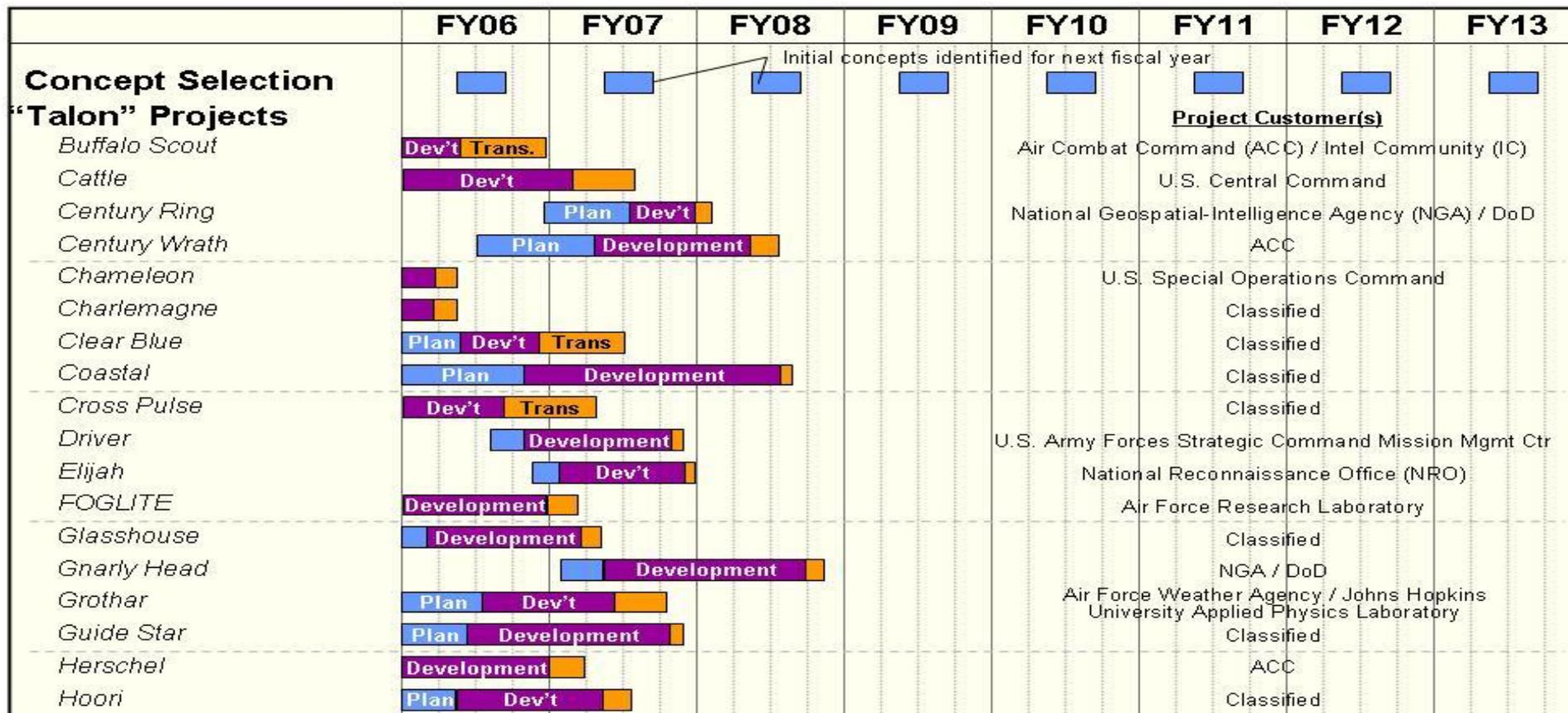
Exhibit R-4, RDT&E Schedule Profile

DATE  
February 2007

BUDGET ACTIVITY  
07 Operational System Development

PE NUMBER AND TITLE  
0207247F Air Force TENCAP

PROJECT NUMBER AND TITLE  
0001 Air Force TENCAP



Initial concepts identified for next fiscal year

**Project Customer(s)**

Air Combat Command (ACC) / Intel Community (IC)  
U.S. Central Command  
National Geospatial-Intelligence Agency (NGA) / DoD  
ACC  
U.S. Special Operations Command  
Classified  
Classified  
Classified  
Classified  
U.S. Army Forces Strategic Command Mission Mgmt Ctr  
National Reconnaissance Office (NRO)  
Air Force Research Laboratory  
Classified  
NGA / DoD  
Air Force Weather Agency / Johns Hopkins University Applied Physics Laboratory  
Classified  
ACC  
Classified

- Concept activities
- Design / development
- Integration / test
- Production / fielding
- Operations / sustainment
- △◇ Key events

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2007

BUDGET ACTIVITY  
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PROJECT NUMBER AND TITLE  
0001 Air Force TENCAP

	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13
<b>“Talon” Projects</b>								
<i>Horizontal Flute</i>	Plan Development							
<i>Iron Cobra</i>		Dev't						
<i>Jake</i>	Transition							
<i>JLOC</i>								
<i>Marketplace</i>	Dev't	Trans						
<i>Mighty Mouse</i>		Dev't						
<i>Namath (JLOC follow-on)</i>	Development	Support						
<i>Netcap</i>	Plan	Development						
<i>Nightshade (JLOC follow-on)</i>	Development	Support						
<i>Noble Hunter</i>	Dev't							
<i>Obstacle</i>		Dev't						
<i>Okeanos</i>	Dev't	Transition						
<i>Party Line</i>	Dev't	Trans						
<i>Pole Vault</i>	Development							
<i>Press</i>	Plan	Dev't						
<i>RAD</i>	Dev't	Trans						
<i>Rotator</i>		Development						
<i>Scarlet Shield</i>	Dev't							
<i>Seeker</i>	Trans							

**Project Customer(s)**

Classified

ACC / IC

Air Force Space Command (AFSPC)

NRO / DoD

Classified

U.S. Southern Command

ACC

ACC/Navy

NGA / DoD

Classified

Classified

Classified

Classified

AFSPC, National Air and Space Intelligence Center (NASIC), U.S. Strategic Command

Army Space Pgm Office, Naval Research Laboratory, NRO

AFSPC, NASIC, U.S. Strategic Command

Classified

U.S. Pacific Command, U.S. Southern Command

Air Force Technical Applications Center

Concept activities  
Production / fielding

Design / development  
Operations / sustainment

Integration / test  
Key events



Exhibit R-4a, RDT&E Schedule Detail

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(U) <u>Schedule Profile</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) FY 2006 projects contracted	1Q			
(U) FY 2007 project concepts identified and approved	2-3Q			
(U) FY 2007 project contractor proposals requested/reviewed	2-4Q			
(U) FY 2007 projects approved for implementation	4Q			
(U) FY 2007 projects contracted		1Q		
(U) FY 2008 project concepts identified and approved		2-3Q		
(U) FY 2008 project contractor proposals requested/reviewed		2-4Q		
(U) FY 2008 projects approved for implementation		4Q		
(U) FY 2008 projects contracted			1Q	
(U) FY 2009 project concepts identified and approved			2-3Q	
(U) FY 2009 project contractor proposals requested/reviewed			2-4Q	
(U) FY 2009 projects approved for implementation			4Q	
(U) FY 2009 projects contracted				1Q
(U) FY 2010 project concepts identified and approved				2-3Q
(U) FY 2010 project contractor proposals requested/reviewed				2-4Q
(U) FY 2010 projects approved for implementation				4Q

Most project selection activities occur approximately per the timelines shown, but some projects are initiated on a rolling basis throughout each year in response to time-sensitive operational requirements.