

UNCLASSIFIED

PE NUMBER: 0207247F
PE TITLE: Air Force TENCAP

Exhibit R-2, RDT&E Budget Item Justification								DATE February 2006																																					
BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0207247F Air Force TENCAP																																								
Cost (\$ in Millions)	FY 2005 Actual	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	17.010	11.661	11.202	11.419	11.607	11.856	12.044	Continuing	TBD																																				
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<p>(U) <u>A. Mission Description and Budget Item Justification</u></p> <p>Established by Congress in 1977 as one of a family of service Tactical Exploitation of National Capabilities (TENCAP) programs, Air Force TENCAP increases the integration of national and space systems into service operations by:</p> <ul style="list-style-type: none"> --Exploiting existing national and space systems for tactical applications by conducting twelve 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 appropriate acquisition organizations for further development. --Influencing the design and operation of future national and space systems for tactical applications by providing inputs into the development cycles of national, military, commercial, and civil space systems. --Educating and training operational forces about program activities and program-developed systems. <p>Air Force TENCAP is executed by the Space Warfare Center at Schriever Air Force Base, Colorado.</p> <p>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.</p> <p>(U) <u>B. Program Change Summary (\$ in Millions)</u></p> <table style="width: 100%; margin-left: 40px;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>FY 2005</u></th> <th style="text-align: center;"><u>FY 2006</u></th> <th style="text-align: center;"><u>FY 2007</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget</td> <td style="text-align: center;">18.112</td> <td style="text-align: center;">10.829</td> <td style="text-align: center;">11.067</td> </tr> <tr> <td>(U) Current PBR/President's Budget</td> <td style="text-align: center;">17.010</td> <td style="text-align: center;">11.661</td> <td style="text-align: center;">11.202</td> </tr> <tr> <td>(U) Total Adjustments</td> <td style="text-align: center;">-1.102</td> <td style="text-align: center;">0.832</td> <td></td> </tr> <tr> <td>(U) Congressional Program Reductions</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Congressional Rescissions</td> <td style="text-align: center;">-0.014</td> <td style="text-align: center;">-0.168</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Congressional Increases</td> <td></td> <td style="text-align: center;">1.000</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Reprogrammings</td> <td style="text-align: center;">-0.600</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">SBIR/STTR Transfer</td> <td style="text-align: center;">-0.488</td> <td></td> <td></td> </tr> </tbody> </table> <p>(U) <u>Significant Program Changes:</u></p> <p style="padding-left: 20px;">FY 2006: Congressional add for FOGLITE project</p>											<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	(U) Previous President's Budget	18.112	10.829	11.067	(U) Current PBR/President's Budget	17.010	11.661	11.202	(U) Total Adjustments	-1.102	0.832		(U) Congressional Program Reductions				Congressional Rescissions	-0.014	-0.168		Congressional Increases		1.000		Reprogrammings	-0.600			SBIR/STTR Transfer	-0.488		
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Exhibit R-2a, RDT&E Project Justification

DATE

February 2006

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207247F Air Force TENCAP

PROJECT NUMBER AND TITLE

0001 Air Force TENCAP

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0001 Air Force TENCAP	17.010	11.661	11.202	11.419	11.607	11.856	12.044	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

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

Established by Congress in 1977 as one of a family of service Tactical Exploitation of National Capabilities (TENCAP) programs, Air Force TENCAP increases the integration of national and space systems into service operations by:

--Exploiting existing national and space systems for tactical applications by conducting twelve 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 appropriate acquisition organizations for further development.

--Influencing the design and operation of future national and space systems for tactical applications by providing inputs into the development cycles of national, military, commercial, and civil space systems.

--Educating and training operational forces about program activities and program-developed systems.

Air Force TENCAP is executed by the Space Warfare Center at Schriever Air Force Base, Colorado.

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Exploit existing space and other national systems for tactical applications through rapid-prototyping projects; influence the design and operation of future systems; educate and train operational forces	9.147	9.642	10.796
(U) Conduct Global Positioning System jammer detection and location (GPS JLOC) system projects	3.177	0.619	0.000
(U) Conduct adverse weather imaging system project (FOGLITE)	4.300	1.000	0.000
(U) Provide program support and other government support	0.386	0.400	0.406
(U) Total Cost	17.010	11.661	11.202

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

	<u>FY 2005</u> <u>Actual</u>	<u>FY 2006</u> <u>Estimate</u>	<u>FY 2007</u> <u>Estimate</u>	<u>FY 2008</u> <u>Estimate</u>	<u>FY 2009</u> <u>Estimate</u>	<u>FY 2010</u> <u>Estimate</u>	<u>FY 2011</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) Other Procurement, Air Force (Weapon System Code 832070, Intelligence Communications Equipment)	0.188	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.822

Exhibit R-2a, RDT&E Project Justification		DATE February 2006
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<p>(U) <u>D. Acquisition Strategy</u></p> <p>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 Warfare Center (SWC) 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 SWC. In all cases the DoD 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 TENCAP.</p>		
Project 0001	R-1 Shopping List - Item No. 138-3 of 138-7	Exhibit R-2a (PE 0207247F)

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Exhibit R-3, RDT&E Project Cost Analysis

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(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &</u> <u>Type</u>	<u>Performing</u> <u>Activity &</u> <u>Location</u>	<u>Total</u> <u>Prior to FY</u> <u>2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Award</u> <u>Date</u>	<u>FY 2006</u> <u>Cost</u>	<u>FY 2006</u> <u>Award</u> <u>Date</u>	<u>FY 2007</u> <u>Cost</u>	<u>FY 2007</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	<u>Target Value</u> <u>of Contract</u>
(U) <u>Product Development</u> Exploiting existing space and other national systems through rapid-prototyping projects; influencing future systems; educating and training FOGLITE	Various	Various	164.370	9.147	Oct-04	9.642	Oct-05	10.796	Oct-06	Continuing	TBD	
	SS/CPFF	General Atomics, San Diego, CA	7.157	4.300	Mar-05	1.000	Mar-06	0.000		0.000	12.457	
GPS JLOC projects (including Nightshade and Namath)	SS/CPFF	NAVSYS Corp., Colorado Springs, CO	6.855	2.457	Oct-05	0.269	Jan-06	0.000		0.000	9.581	
GPS JLOC projects (Nightshade)	Various	Various	0.000	0.720	Oct-05	0.350	Mar-06	0.000		0.000	1.070	
Subtotal Product Development			178.382	16.624		11.261		10.796		Continuing	TBD	0.000
Remarks:												
(U) <u>Support</u> Program oversight	Various	Various	6.522	0.386	Dec-04	0.400	Dec-05	0.406	Dec-06	Continuing	TBD	
Subtotal Support			6.522	0.386		0.400		0.406		Continuing	TBD	0.000
Remarks:												
(U) <u>Test & Evaluation</u> Not applicable											0.000	
Subtotal Test & Evaluation			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
Remarks:												
(U) Total Cost			184.904	17.010		11.661		11.202		Continuing	TBD	0.000

Exhibit R-4, RDT&E Schedule Profile

DATE

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BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207247F Air Force TENCAP

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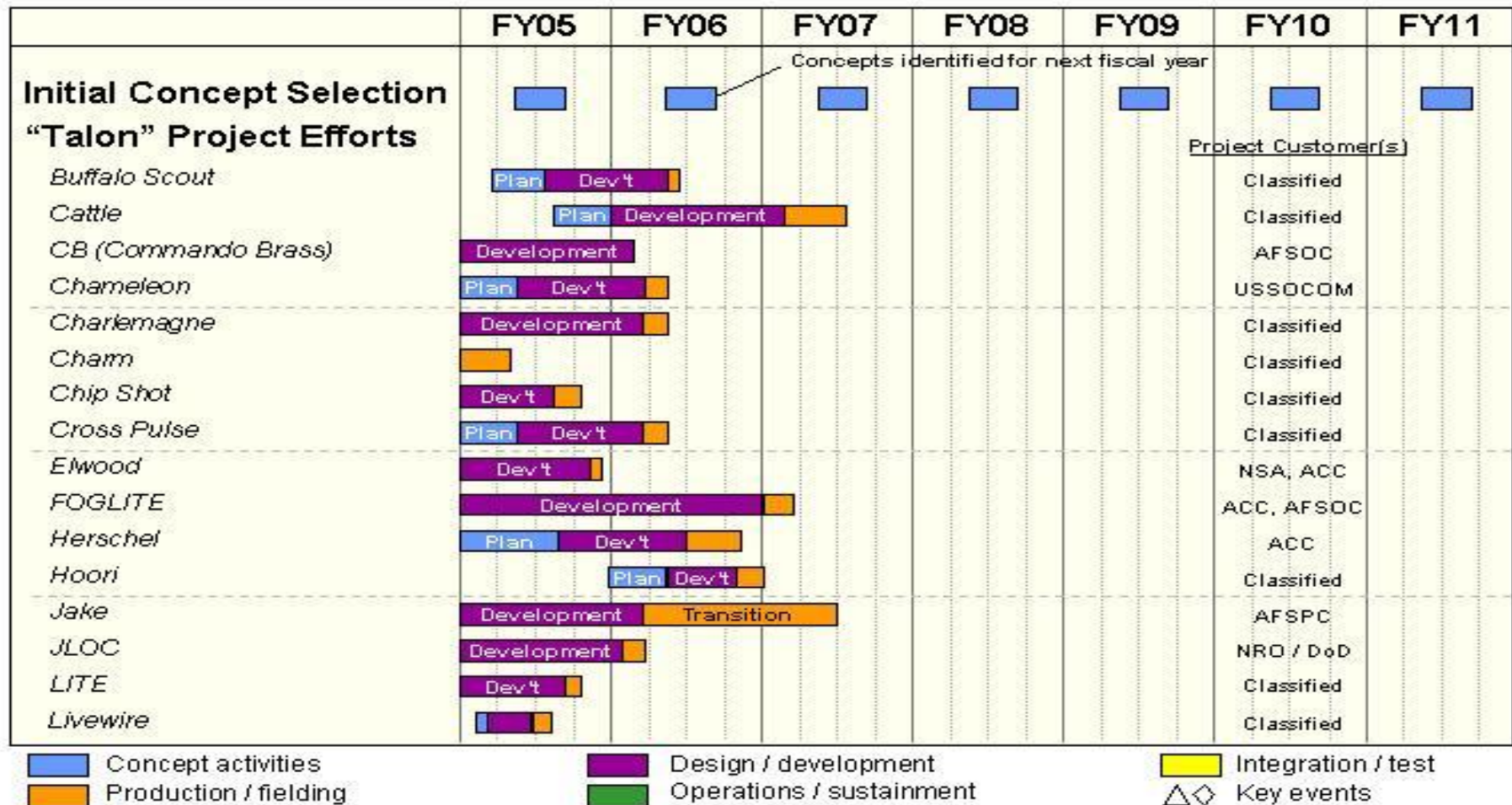


Exhibit R-4, RDT&E Schedule Profile

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BUDGET ACTIVITY

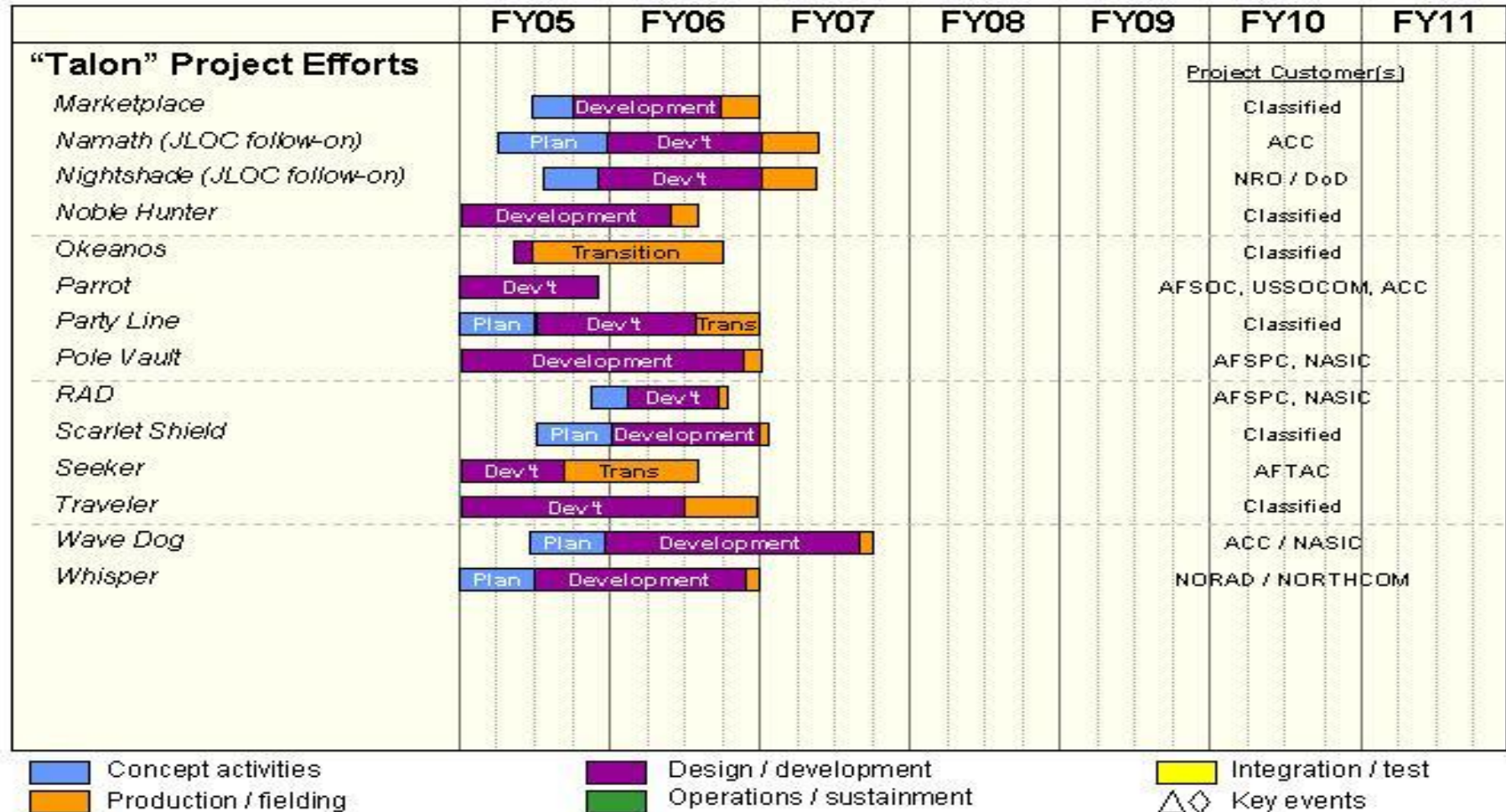
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Exhibit R-4a, RDT&E Schedule Detail

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(U) Schedule ProfileFY 2005FY 2006FY 2007

(U) FY 2005 projects contracted

1Q

(U) FY 2006 project concepts identified and approved

2-3Q

(U) FY 2006 project contractor proposals requested/reviewed

2-4Q

(U) FY 2006 projects approved for implementation

4Q

(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

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