RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE: February 2002

BUDGET ACTIVITY: 06 - Management and Support

PE NUMBER AND TITLE: 0605864F Space Test Program

PROJECT: 2617

COST ($ in Thousands)		FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
2617	Free-Flyer Spacecraft Missions	41,451	49,318	49,882	53,851	55,325	56,347	57,419	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0

(U) A. Mission Description

(U) The Space Test Program (STP) conducts space test missions for the purpose of advancing DoD space technology and enabling future US space superiority. The program flies the maximum number of DoD experiments consistent with priority, opportunity, and funding. STP missions are the most cost effective way to flight test new space system technologies, concepts and designs, providing an inexpensive way to:

- Demonstrate the feasibility of new space systems and technologies
- Improve operational design by characterizing the space environment, event, or sensor physics proposed for an operational system/system upgrade
- Provide early operational capabilities to evaluate usefulness or quickly react to new developments
- Perform operational risk reduction through direct flight test of prototype components
- Develop a knowledge base from which to plan new and improved operational systems and system upgrades
- Develop and test advanced launch vehicle technologies and capabilities

(U) The Secretary of Defense issued a policy statement in November 1995 reaffirming STP's role as the primary provider of spaceflight for the entire DoD space research community. The USAF is the DoD steward, providing spaceflight for experiments with military relevance from the services as well as from MDA, DARPA, DoE and other government organizations. Partnership opportunities with these organizations and with NATO defense organizations further reduce the cost of these space flights to the DoD and the USAF. The Air Force requires a stable funding level and the flexibility necessary to take advantage of whatever means of spaceflight is deemed to be the most cost effective for a given experiment or complement of experiments.

(U) STP has a constantly evolving mission portfolio, whereby space experiments and technology payloads are selected for spaceflight from the most recent list approved by the DoD Space Experiments Review Board (SERB). STP is authorized to initiate new missions from the prioritized, SERB-approved list. Selection of the most appropriate spaceflight mode for a payload is dependent on optimizing the combination of SERB list priority, timing and readiness of experiments, launch opportunity, and availability of funding. STP support for these payloads includes some or all of the following: acquisition of a dedicated satellite and launch vehicle;

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)	DATE February 2002
BUDGET ACTIVITY: 06 - Management and Support	PE NUMBER AND TITLE: 0605864F Space Test Program
	PROJECT: 2617

(U) A. Mission Description Continued

integration onto a host satellite, launch booster, the shuttle or space station; funding for the launch and initial operations for approximately one year. This flexible approach is essential to take advantage of inexpensive 'target of opportunity' space hardware, including operational spacecraft, and ensures the maximum amount of DoD space research is accomplished with the limited funds available.

(U) STP may act as the DoD's office of primary responsibility for non-SERB secondary payload access to space and excess performance margin on DoD launch vehicles, on a reimbursable basis.

(U) FY 2001 ($ in Thousands)

(U)	$8,480	Conducted piggyback/secondary payload, mission planning and risk reduction; provide technical support, mission and program support
(U)	$2,269	Conducted Space Shuttle payload integration, analysis, pre- and post-launch processing, and on-orbit support
(U)	$3,851	Initiated space missions (including planning and source selection activities) using experiments from the current SERB list, such as CMEWS & STP EELV
(U)	$26,850	Continued space experiment missions from current and prior SERB lists - e.g. : CORIOLIS, Kodiak Star, C/NOFS, TSX-5 and MightySat II.1
(U)	$41,450	Total

.

(U) FY 2002 ($ in Thousands)

(U)	$8,972	Conduct piggyback/secondary payload, mission planning and risk reduction; provide technical support, mission and program support
(U)	$3,300	Conduct Space Shuttle payload integration, analysis, pre- and post-launch processing, and on-orbit support
(U)	$3,709	Initiate space missions (including planning and source selection activities) using experiments from the current SERB list e.g. CFE Sat
(U)	$33,337	Continue space experiment missions from current and prior SERB lists- e.g.: Coriolis, CNOFS, STP-EELV
(U)	$49,318	Total

(U) FY 2003 ($ in Thousands)

(U)	$7,236	Conduct piggyback/secondary payload, mission planning and risk reduction, provide technical support, mission and program support
(U)	$3,000	Conduct Space Shuttle payload integration, analysis, pre- and post-launch processing, and on-orbit support
(U)	$1,258	Initiate space missions (including planning and source selection activities) using experiments from the current SERB list e.g. OMPS-AE
(U)	$38,388	Continue space missions from current and prior SERB lists - e.g. Coriolis, CNOFS, STP-EELV
(U)	$49,882	Total

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)	DATE: February 2002
BUDGET ACTIVITY: 06 - Management and Support	PE NUMBER AND TITLE: 0605864F Space Test Program
	PROJECT: 2617

(U) B. Budget Activity Justification

STP is in Budget Activity 6, RDT&E Management and Support, because it supports RDT&E satellite launches.

(U) C. Program Change Summary ($ in Thousands)

		FY 2001	FY 2002	FY 2003	Total Cost
(U)	Previous President's Budget	46,050	50,523	54,603	TBD
(U)	Appropriated Value	46,476	50,523		
(U)	Adjustments to Appropriated Value				
	a. Congressional/General Reductions	-325	-1,205		
	b. Small Business Innovative Research	-255			
	c. Omnibus or Other Above Threshold Reprogram	-2,334			
	d. Below Threshold Reprogram	-2,011			
	e. Rescissions	-101			
(U)	Adjustments to Budget Years Since FY 2002 PBR			-4,721	
(U)	Current Budget Submit/FY 2003 PBR	41,450	49,318	49,882	TBD

(U) Significant Program Changes:

FY01 funds reprogrammed to fund Spacetrack systems integration and training (-$531K), to support SMC's long range planning activities for future space systems (-$1M) and to reimburse Department of Treasury Judgement Fund for Rail Garrison termination costs (-$480K). Total BTR = -$2.011M

FY01 funds were also reduced by (-$2.334M) omnibus reprogramming to support higher AF priorities.

FY03 reductions were reprogrammed to support other higher DoD priorities.

(U) D. Other Program Funding Summary ($ in Thousands)

		FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
(U)	Related Procurement:									
(U)	MPAF (PE 0305953F, Evolved Expendable Launch Vehicle) (BA-5, P-28)				75,000					

Funds the FY06 dedicated STP EELV flight (experiments will be selected from the SERB list). The STP EELV flight slipped out from FY05 due to procurement delays.

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)	DATE February 2002
BUDGET ACTIVITY: 06 - Management and Support	PE NUMBER AND TITLE: 0605864F Space Test Program
	PROJECT: 2617

(U) D. Other Program Funding Summary ($ in Thousands)

FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost

Experiments may also be funded in other Science and Technology (S&T) PEs in Air Force, Army, Navy, DARPA, BMDO, DoE, NASA, and other programs.

(U) E. Acquisition Strategy

Not Required

(U) F. Schedule Profile

	FY 2001				FY 2002				FY 2003			
	1	2	3	4	1	2	3	4	1	2	3	4

(U) Not Required