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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force										Date: May 2017		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 6: RDT&E Management Support					R-1 Program Element (Number/Name) PE 1206864F I Space Test Program (STP)							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	-	28.143	27.070	25.398	0.000	25.398	25.812	26.293	26.750	27.299	Continuing	Continuing
662617: Free-Flyer Spacecraft Missions	-	28.143	27.070	25.398	0.000	25.398	25.812	26.293	26.750	27.299	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY2018, PE 0605864F, Space Test Program (STP) efforts were transferred to PE 1206864F, Space Test Program (STP) due to the creation of a new Major Force Program for Space. FY2016 and FY2017 funding is now documented in the exhibits for PE 1206864F.

A. Mission Description and Budget Item Justification

The Space Test Program (STP) conducts space test missions for the purpose of accelerating DoD space technology transformation while lowering developmental risk. The program flies an optimally selected number of DoD-sponsored experiments consistent with Space Experiments Review Board (SERB) priority, opportunity, and funding. STP missions provide a cost-effective way to flight test new militarily relevant space system technologies, concepts, and designs, providing a way to:

- Support the acquisition block development approach
- Demonstrate and develop responsive research and development (R&D) space capabilities
- Provide early operational capabilities to quickly react to new developments
- Perform operational risk reduction through direct flight test of prototype components
- Improve operational design by characterizing the space environment, event, or sensor physics proposed for an operational system/system upgrade
- Develop, integrate, test, and acquire advanced payload support hardware for launch vehicles (LV) and human-rated spaceflight vehicles

The Deputy Secretary of Defense Space Test Program Management & Funding Policy, issued in July 2002, reaffirmed STP as the primary provider of spaceflight for the DoD space research community. The July 2002 policy statement also reaffirmed STP's role as the single manager for all DoD payloads on the International Space Station (ISS).

This program is in Budget Activity 6, RDT&E Management Support because this budget activity includes research, development, test and evaluation efforts and funds to sustain and/or modernize the installations or operations required for general research, development, test and evaluation.

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B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	28.143	27.070	25.325	0.000	25.325
Current President's Budget	28.143	27.070	25.398	0.000	25.398
Total Adjustments	0.000	0.000	0.073	0.000	0.073
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	0.073	0.000	0.073
C. Accomplishments/Planned Programs (\$ in Millions)					
Title: Payload Integration				FY 2016	FY 2017
Description: Integrate payloads onto spaceflight missions, including free-flyer payloads, hosted payloads, sounding rockets, experiments on the International Space Station, and commercial missions. Includes acquisition of associated spacecraft and integration hardware.				18.170	18.051
FY 2016 Accomplishments: Continued support to the STP-2 launch mission carrying 16 SERB experiments. Continued the integration of the Evolved Expendable Launch Vehicle (EELV) Secondary Payload Adapter (ESPA) Augmented Geostationary Laboratory Experiment (EAGLE) Spacecraft Platform to host five SERB experiments from the Air Force Research Laboratory (AFRL) requiring flight to geo-synchronous orbit (GEO). Continued development of STP Satellite #4 (STPSat-4) to host five SERB payloads for launch and deployment from the ISS in 2017. Continued development of STP Satellite #5 (STPSat-5) to host four SERB payloads for a polar orbit launch in 2017. Completed integration of the STP-Houston 5 (H5) experiment payload pallet for flight on the ISS, hosting six SERB experiments. Continued the design of STPSat-6, which hosts seven SERB payloads, and will serve as the prime payload for the STP-3 medium launch mission to GEO. Continued payload integration on to STP-Houston 6 (H6) hosting six SERB experiments. Provided the unique program costs required for the operation of the Space Test Program (STP) in its management and oversight role, including program management, administrative, information technology, travel and supply support.					
FY 2017 Plans:					
					FY 2018
					17.355

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018
Continue payload integration efforts onto spaceflight missions (STPSat-4 and STPSat-5). Complete the design of STPSat-6 and begin the acquisition and integration of STPSat-6, and STP-H6. Continue to provide the unique program costs required for the operation of the STP in its management and oversight role including program management, administrative, information technology, travel and supply support. FY 2018 Plans: Continue payload integration on to STPSat-6, STP-H6, and other efforts onto spaceflight missions. Continue program office and other related support activities that may include, but are not limited to studies, technical analysis, etc.				
Title: Launch Vehicle and Launch Services Description: Purchase launch services, launch vehicles and launch vehicle support for free-flyer payloads, hosted payloads, sounding rockets, experiments on the ISS, and commercial spaceflight missions. FY 2016 Accomplishments: Continued integration efforts for the Kestrel Eye II spacecraft for a commercial launch/deployment via NASA's NanoRacks contract. Coordinated support from AFSPC for the next medium launch mission, STP-3, as a direct inject to GEO launch. FY 2017 Plans: Continue purchase of launch services for STPSat-5, launch vehicles, and launch vehicle support for free-flyer payloads, hosted payloads, sounding rockets, experiments on the ISS, and commercial spaceflight missions. Launch STP-2 medium launch mission, launch STP-H5 to ISS, and launch Kestrel Eye II from ISS. FY 2018 Plans: Continue purchase of launch services, launch vehicles, and launch vehicle support for free-flyer payloads, hosted payloads, sounding rockets, experiments on the ISS, and commercial spaceflight missions. Plan to launch STPSat-5, EAGLE on the AFSPC-11, and additional payloads to the ISS in FY18.		8.261	5.745	4.161
Title: On Orbit Satellite Operations Description: Execute first-year operations and operations support for STP-sponsored missions. FY 2016 Accomplishments: Continued operations support for STP-sponsored missions, including operations for the STP Satellite #3 (STPSat-3), which hosted six experimental payloads. FY 2017 Plans:		1.712	3.274	3.882

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C. Accomplishments/Planned Programs (\$ in Millions)								FY 2016	FY 2017	FY 2018	
Complete forecasted launch and early-orbit checkout of the Demonstration and Science Experiment (DSX) and NASA's Green Propellant Infusion Mission (GPIM) carrying SERB experiments on STP-2.											
FY 2018 Plans: Continue support of forecasted launch and early orbit checkout of the DSX mission on STP-2. Continue first-year operations and/or operations support for STP-sponsored missions, DSX and GPIM.											
Accomplishments/Planned Programs Subtotals								28.143	27.070	25.398	
D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u> <u>Base</u>	<u>FY 2018</u> <u>OCO</u>	<u>FY 2018</u> <u>Total</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• N/A: N/A	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-
Remarks											
E. Acquisition Strategy N/A											
F. Performance Metrics Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.											