Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force											Date: March 2014	
Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force* / BA 6: *RDT&E Management Support*					R-1 Program Element (Number/Name) PE 0605864F / *Space Test Program (STP)*							
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
Total Program Element	-	39.012	11.642	21.161	-	21.161	28.416	27.555	25.782	26.272	Continuing	Continuing
662617: *Free-Flyer Spacecraft Missions*	-	39.012	11.642	21.161	-	21.161	28.416	27.555	25.782	26.272	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

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 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 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	10.051	13.000	26.000	-	26.000
Current President's Budget	39.012	11.642	21.161	-	21.161
Total Adjustments	28.961	-1.358	-4.839	-	-4.839
• Congressional General Reductions	-0.059	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	35.000	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-2.194	-			
• Other Adjustments	-3.786	-1.358	-4.839	-	-4.839

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2013	FY 2014
Project: 662617: *Free-Flyer Spacecraft Missions*		
Congressional Add: *RESTORE PROGRAM FUNDING*	30.309	-
Congressional Add Subtotals for Project: 662617	30.309	-
Congressional Add Totals for all Projects	30.309	-

Change Summary Explanation

FY2013: -$3.786M for Sequestration
FY2014: -$1.300M for program decrease; -$.58M for FFRDC reduction
FY2015: -$4.575M for higher Air Force priorities; -$0.329M for Non-Pay Inflation reduction

C. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
Title: PAYLOAD INTEGRATION	3.925	5.247	12.973

Description: Integrate payloads onto spaceflight missions, including free-flyer payloads, hosted payloads, sounding rockets, experiments on the ISS, and commercial missions. Includes acquisition of associated spacecraft and integration hardware. Provide the unique program costs required for the operation of the Space Test Program in its management and oversight role including program management, administrative, information technology, travel and supply support. This funding line now includes what was previously referred to as Program Support.

FY 2013 Accomplishments:

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Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force* / BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0605864F / *Space Test Program (STP)*

C. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
Continued payload integration efforts onto spaceflight missions, including free-flyer payloads, hosted payloads, sounding rockets, experiments on the ISS, and commercial missions, and acquisition of associated spacecraft and integration hardware. FY13 support included mission design, spacecraft procurement and payload integration for the Space Test Program (STP) Satellite #3 (STPSat-3) which hosted six payloads including the Air Force Research Lab (AFRL) Strip Sensor Unit (Space Experiment Review Board (SERB) #10), Naval Research Laboratory small Wind and Temperature Spectrometer (SERB#26), the US Air Force Academy's Integrated Miniaturized Electrostatic Analyzer Re-Flight (SERB #72), NASA/NOAA's Total Solar Irradiance Calibration Transfer Equipment, AFRL Joint Component Research (SERB Unranked), and the STP/AFRL De-orbit Module (enabling technology). STPSat-3 launched in 1QFY14. Provided the unique program costs required for the operation of the Space Test Program in its management and oversight role including program management, administrative, information technology, travel and supply support. ***FY 2014 Plans:*** Continue payload integration efforts onto spaceflight missions, including free-flyer payloads, hosted payloads, sounding rockets, experiments on the ISS, and commercial missions; including acquisition of associated spacecraft and integration hardware. Continue to provide the unique program costs required for the operation of the Space Test Program in its management and oversight role including program management, administrative, information technology, travel and supply support. ***FY 2015 Plans:*** (NOTE: FY15 restores the program to normal funding level as the program exhausts its FY13 Congressional Add) Continue payload integration efforts onto spaceflight missions, including free-flyer payloads, hosted payloads, sounding rockets, experiments on the ISS, and commercial missions; including acquisition of associated spacecraft and integration hardware. Continue to provide the unique program costs required for the operation of the Space Test Program in its management and oversight role including program management, administrative, information technology, travel and supply support.			
Title: LAUNCH VEHICLE AND LAUNCH SERVICES	2.533	3.386	5.453
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 2013 Accomplishments:*** Purchased launch services, launch vehicles, and launch vehicle support for free-flyer payloads, hosted payloads, sounding rockets, experiments on the ISS, and commercial spaceflight missions. FY13 efforts included integration of several SERB experiments on the ISS, which included Active Thermal Tile (SERB #22), Miniature Array of Radiation Sensors (SERB #55), Small Wind and Temperature Spectrometer (SERB #26), Global Awareness Data-Exfiltration International Satellite Constellation (SERB #20) and Integrated Miniaturized Electrostatic Analyzer-Reflight (SERB #72) on a Japanese ISS resupply mission. It also included			

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Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force* / BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0605864F / *Space Test Program (STP)*

C. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
flight of Cornell University Satellite (SERB #46) and Drag and Atmospheric Neutral Density Experiment (SERB #34) on a NASA-sponsored commercial launch which was launched in 4QFY13. ***FY 2014 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. ***FY 2015 Plans:*** (NOTE: FY15 restores the program to normal funding level as the program exhausts its FY13 Congressional Add) 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.			
Title: ON ORBIT SATELLITE OPERATIONS ***Description:*** Execute first-year operations and operations support for STP-sponsored missions. ***FY 2013 Accomplishments:*** Executed first-year operations and operations support for STP-sponsored missions, to include Space Test Program Satellite-3 and Automated Navigation and Guidance Experiment for Local Space (ANGELS). ***FY 2014 Plans:*** Execute first-year operations and/or operations support for STP-sponsored missions. ***FY 2015 Plans:*** Execute first-year operations and/or operations support for STP-sponsored missions.	2.245	3.009	2.735
Accomplishments/Planned Programs Subtotals	8.703	11.642	21.161

	FY 2013	FY 2014
Congressional Add: RESTORE PROGRAM FUNDING	30.309	-
FY 2013 Accomplishments: Invested in mission opportunities for cost-effective future spaceflight to include: - Investment in the completion of the Air Force Research Laboratory (AFRL) Eagle spacecraft platform which will host at least three STP-sponsored payloads from the SERB-approved experiment list; - Investment in the configuration of the X-37B Orbital Test Vehicle to host multiple small payloads; - Purchasing a sounding rocket for the Active Ionospheric Control Experiment;		

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	FY 2013	FY 2014
- Funding a portion of the STP-H5 mission, a SERB payload carrier for flight on the International Space Station; - Funding the start of development of the Nanosatellite Standard Interface Vehicle for hosting future low-cost SERB payload missions. Provided operations and operations support for the Conjugated Disturbance Experiment and initiated mission design activities based on the 2012 SERB-approved experiment list.		
Congressional Adds Subtotals	30.309	-

D. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• RDT&E: BA03: PE0603401F: *Advanced Spacecraft Technology*	14.223	13.095	10.000	-	10.000	-	-	-	-	-	-

Remarks

STP-2 integration and mission operations will be continued in FY15 via existing funding in PE 0603401F Advanced Spacecraft Technology, RDT&E AF. STP-2 is a dedicated research and development launch mission that also supports the commercial new entrant launch strategy. STP-2 will carry multiple Space Experiments Review Board approved payloads.

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.