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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Air Force **Date:** February 2020

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force</i> / BA 6: <i>RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 1206864F / <i>Space Test Program (STP)</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	-	29.731	26.097	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
662617: <i>Free-Flyer Spacecraft Missions</i>	-	29.731	26.097	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note
 In FY2021, PE 1206864F, Space Test Program efforts were transferred to Appropriation 3620, Research, Development, Test & Evaluation, Space Force, PE 1206864SF Space Test Program from Appropriation 3600, Budget Activity 06 due to the creation of a new Appropriation for Space Force.

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 integrates, launches, and operates 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), commercial launch services, and human-rated spaceflight vehicles
- Expand and leverage international opportunities to further access for the US and its allies' R&D payloads

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).

Space acquisition must respond with speed and agility to emerging adversary threats. Space and Missile Systems Center (SMC) is transforming the organization and implementation of space acquisition to an enterprise approach, maximizing innovation and resiliency, leveraging international, commercial, and mission partnerships, and managing program/project priorities according to an integrated unclassified /classified enterprise space architecture. Expanding the appropriate acquisition authorities and contract mechanism to deliver capability sooner, SMC will strategically execute experimentation, prototyping, risk reduction, and other efforts to develop new, or repurpose capabilities.

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This program element may include necessary civilian pay expenses required to manage, execute, and deliver STP weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 1206392F and 1206398F.

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.

B. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	25.620	26.097	26.550	0.000	26.550
Current President's Budget	29.731	26.097	0.000	0.000	0.000
Total Adjustments	4.111	0.000	-26.550	0.000	-26.550
• 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	4.955	0.000			
• SBIR/STTR Transfer	-0.844	0.000			
• Other Adjustments	0.000	0.000	-26.550	0.000	-26.550

Change Summary Explanation

FY 2019: \$4.955M increase for payload integration for STPSat-6 and on-orbit operations for STP-2 payloads.

FY 2021: -\$26.541M; funds starting in FY 2021 were transferred from RDT&E, Air Force to RDT&E, Space Force.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021
Title: Payload Integration	21.585	20.175	0.000
Description: Integrate payloads onto spaceflight missions, including free-flyer payloads, hosted payloads, sounding rockets, experiments on the International Space Station (ISS), and commercial missions. Includes acquisition of associated spacecraft and integration hardware.			
FY 2020 Plans:			
Continue payload integration of STP-H7 and begin acquisition of STP-H9.			
Continue payload integration efforts and launch-based processing and launch operations for STPSat-6.			
Begin satellite acquisition and integration of STPSat-7.			
Exploring potential international rideshare opportunities and identify pathfinder for international Science & Technology payload rideshare process.			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2019	FY 2020	FY 2021
Continue program office and other related support activities that may include, but are not limited to studies, technical analysis, prototyping, etc. FY 2021 Plans: N/A FY 2020 to FY 2021 Increase/Decrease Statement: N/A				
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, and support the spaceflight worthiness and "Do No Harm" certification for Space and Missile Systems Center (SMC) and US Space Force (USSF) HQ. FY 2020 Plans: Launch STPSat-6 on STP-3 launch vehicle. Continue to support spaceflight worthiness and "Do No Harm" certification. FY 2021 Plans: N/A FY 2020 to FY 2021 Increase/Decrease Statement: N/A		5.755	4.528	0.000
Title: On Orbit Satellite Operations Description: Execute first-year operations and operations support for STP-sponsored missions. FY 2020 Plans: Begin first year on-orbit operations support for STPSat-6 and the Long Duration Propulsive ESPA-1 (LDPE-1). Complete STP-2 payloads on-orbit support for GPIM and DSX and continue DSX on orbit operations for an additional year to satisfy SERB experiment objectives for DSX Cyber Hardness Augmentation of an On-Orbit Satellite (CHAOS). FY 2021 Plans: N/A FY 2020 to FY 2021 Increase/Decrease Statement: N/A		2.391	1.394	0.000
Accomplishments/Planned Programs Subtotals		29.731	26.097	0.000

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D. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

In FY2021, PE 1206864F, Space Test Program efforts were transferred to Appropriation 3620, Research, Development, Test & Evaluation, Space Force, PE 1206864SF Space Test Program from Appropriation 3600, Budget Activity 06 due to the creation of a new Appropriation for Space Force.

E. Acquisition Strategy

N/A