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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 1206445F / <i>Commercial SATCOM (COMSATCOM) Integration</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	-	4.817	0.000	0.000	0.000	0.000	-	-	-	-	-	-
650140: <i>COMSATCOM</i>	-	4.817	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

In FY 2021, PE 1206445F, COMSATCOM Integration, Project 650140, COMSATCOM was transferred to PE 1206445SF, COMSATCOM Integration, Project 650140, COMSATCOM, due to Congressionally directed transfer of funding into PE1206445SF.

The Space Force has determined that an enterprise approach to the procurement, delivery, and management of its SATCOM capabilities is the best means to create an environment that is responsive to Combatant Commanders and other users across the spectrum of conflict. In addition, an enterprise approach will improve affordability and mission assurance. The COMSATCOM Program Element (PE) started this process and will continue to deliver specific COMSATCOM capabilities as well as support COMSATCOM integration into the SATCOM Enterprise. Procurement of COMSATCOM capability is also supported by the Defense Working Capital Fund (DWCF). An Overarching SATCOM Enterprise Program of Record that incorporates COMSATCOM, MILSATCOM and International Partners into a hybrid structure is found under Program Element 1206431F, Project 657104, MILSATCOM Space Modernization Initiative (SMI).

Space acquisition must respond with speed and agility to emerging adversary threats. The Space Force has transformed 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 mechanisms to deliver capability sooner, the Space Force will strategically execute experimentation, prototyping, risk reduction, and other efforts to develop new or repurpose capabilities.

This PE may include necessary civilian pay expenses required to manage, execute and deliver Commercial SATCOM in a single Enterprise architecture. The use of such funds would be in addition to the civilian pay expenses budgeted in PEs 1206392F and 1206398F.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

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B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	5.000	0.000	0.000	0.000	0.000
Current President's Budget	4.817	0.000	0.000	0.000	0.000
Total Adjustments	-0.183	0.000	0.000	0.000	0.000
• 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	-0.183	0.000			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 650140: COMSATCOM

Congressional Add: *Proliferated Low Earth Orbit*

Congressional Add Subtotals for Project: 650140

Congressional Add Totals for all Projects

	FY 2020	FY 2021
	4.817	-
Congressional Add Subtotals for Project: 650140	4.817	-
Congressional Add Totals for all Projects	4.817	-

C. Accomplishments/Planned Programs (\$ in Millions)

Congressional Add: Proliferated Low Earth Orbit

FY 2020 Accomplishments: This effort funded a limited proliferated Low Earth Orbit (LEO) assessment of operational merit and feasibility. The effort included assessment of COMSATCOM services; assessment of technical architecture to support the service; and assessment of impacts to existing business models, inclusive of ground control efforts necessary for the Government to manage the capability amongst an autonomous, diverse and dynamic user community.

	FY 2020	FY 2021
Congressional Add: Proliferated Low Earth Orbit	4.817	-
Congressional Adds Subtotals	4.817	-

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

N/A

Remarks

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E. Acquisition Strategy
The strategy is for a focused assessment of pLEO COMSATCOM capabilities leveraging existing DARPA contracts.

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Air Force **Date:** May 2021

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 1206445F / <i>Commercial SATCOM (COM SATCOM) Integration</i>	Project (Number/Name) 650140 / <i>COMSATCOM</i>
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FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

<i>Proliferated LEO</i>	
P-LEO Assessment	[REDACTED]

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Air Force		Date: May 2021
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 1206445F / <i>Commercial SATCOM (COM SATCOM) Integration</i>	Project (Number/Name) 650140 / <i>COMSATCOM</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proliferated LEO</i>				
P-LEO Assessment	2	2021	2	2022