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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force										Date: February 2019		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 1206445F I Commercial SATCOM (COMSATCOM) Integration							
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	-	0.000	49.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	49.500
650140: COMSATCOM	-	0.000	49.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	49.500
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note The DoD Appropriations Act, 2019, directed a transfer of \$49.5 million Space Procurement, Air Force (SPAF) from Wideband Gapfiller Satellites (Space) to a new RDT&E, AF line. PE 1206445F, Commercial SATCOM (COMSATCOM) Integration, Project 650140, COMSATCOM, fulfills this intent. A. Mission Description and Budget Item Justification The subject Research, Development, Test and Evaluation (RDT&E) funds will be executed from Headquarters Air Force Space Command (AFSPC) and will be used to advance mission-critical COMSATCOM capabilities, thereby enabling transformation of AFSPC's SATCOM enterprise by ensuring RDT&E investments have utility and portability between Military SATCOM (MILSATCOM) and COMSATCOM requirements. These three activities include: COMSATCOM financial and customer tools development and migration from the Defense Information Systems Agency (DISA) to Air Force systems; development of enhanced COMSATCOM acquisition capabilities; and enterprise innovation development activities focused on transforming and integrating the four principle layers of a SATCOM service - space, terminal, network, and management and control - as well as governance structures needed to normalize enterprise capabilities. The Air 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 PE will start this process. COMSATCOM Integration will establish an Enterprise Program of Record (POR) that incorporates COMSATCOM, MILSATCOM, and International partners into a hybrid architecture. Space acquisition must respond with speed and agility to emerging adversary threats. AFSPC 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 mechanisms to deliver capability sooner, AFSPC 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. As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.												

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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.						
B. Program Change Summary (\$ in Millions)		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget		0.000	0.000	0.000	0.000	0.000
Current President's Budget		0.000	49.500	0.000	0.000	0.000
Total Adjustments		0.000	49.500	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	49.500			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.000	0.000	0.000	0.000	0.000
Change Summary Explanation						
FY2019: \$49.5M Congressional Directed Transfer from GAP000/Wideband Gapfiller Satellites SPAF to a new COMSATCOM RDT&E, AF line.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2018	FY 2019	FY 2020
Title: COMSATCOM Financial and Customer Tools Development and Migration				0.000	15.000	0.000
Description: This activity will transition the existing COMSATCOM customer-facing tools and background financial management data systems from DISA services to the Air Force. These must be migrated to Air Force systems in order to continue the transition of responsibilities associated with AFSPC's sole procurement authorities. A new system of tools is required to automate and securely distribute COMSATCOM acquisition and utilization of information to stakeholders, and to also reproduce and enhance the ordering, billing, activation, and provisioning, and other financial management tasks presently provided by DISA.						
FY 2019 Plans: Initiate activities that shall solicit proposals on/about 3Q FY 2019 and resultant contract(s) is estimated to be awarded on/about 4Q FY 2019 with all funds obligated at that time. Delivery of the various tools is expected to occur by 4Q FY2020.						
FY 2020 Plans: N/A.						
FY 2019 to FY 2020 Increase/Decrease Statement:						

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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>I Commercial SATCOM (COMSATCOM) Integration</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019	FY 2020
FY 2020 decreased compared to FY 2019 by \$15.0M. No funding is requested in FY 2020.				
Title: Development of Enhanced COMSATCOM Procurement Capabilities Description: This project will consolidate lessons learned to develop a future COMSATCOM acquisition methodology that normalizes demonstrated savings potentials, closes operational gaps, and pursues increased end-user readiness, flexibility, and responsiveness. Specific to this task is research on legal and/or policy allowances that previously have not been exploited, as well as provisions that, if changed, further SATCOM acquisition transformation. FY 2019 Plans: FY2019 Plans: Initiate activities that shall solicit proposals on/about 3Q FY 2019 and resultant contract(s) is estimated to be awarded on/about 4Q FY 2019 with all funds obligated at that time. Deliverable is an acquisition strategy artifact, and shall be completed by 3Q FY 2020. FY 2020 Plans: N/A. FY 2019 to FY 2020 Increase/Decrease Statement: FY 2020 decreased compared to FY 2019 by \$6.0M. No funding is requested in FY 2020.		0.000	6.000	0.000
Title: Enterprise Innovation Efforts Description: This effort advances enterprise development in the four layers of a SATCOM capability, along with the overarching governance structure necessary to enable ubiquitous service capability, awareness, control, and assessment. Informed by AFSPC's Enterprise SATCOM Strategy, which is currently under development and to be completed in FY 2019, the effort will investigate AFSPC's ability to influence commercial satellite systems, technologies, services, and architectures, with keen attention towards applicability across the SATCOM enterprise. Examples of focus areas include, but are not limited to: Enterprise Management & Control; Bandwidth Pooling; Terminal Flexibility; and Managed Services. FY 2019 Plans: Initiate development and demonstration activities leading to delivery of capabilities that meet the Air Force's enterprise SATCOM needs as outlined in its forthcoming Enterprise SATCOM Vision and Strategy. FY 2020 Plans: N/A. FY 2019 to FY 2020 Increase/Decrease Statement:		0.000	28.500	0.000

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019	FY 2020
FY 2020 decreased compared to FY 2019 by \$28.5M. No funding is requested in FY 2020.				
Accomplishments/Planned Programs Subtotals		0.000	49.500	0.000
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy The strategy/plan is to do multiple competitive awards.				
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.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force												Date: February 2019			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 1206445F / Commercial SATCOM (COMSATCOM) Integration				Project (Number/Name) 650140 / COMSATCOM					
Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
COMSATCOM Financial and Customer Tools Development and Migration	TBD	TBD : TBD	-	-		15.000	Jun 2019	-		-		-	0.000	15.000	-
Development of Enhanced COMSATCOM Procurement Capabilities	TBD	TBD : TBD	-	-		6.000	Jun 2019	-		-		-	0.000	6.000	-
Enterprise Innovation Efforts	TBD	TBD : TBD	-	-		24.470	Jun 2019	-		-		-	0.000	24.470	-
Subtotal			-	-		45.470		-		-		-	0.000	45.470	N/A
Management Services (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
FFRDC	MIPR	Aerospace Corp : Various	-	-		1.450	Mar 2019	-		-		-	0.000	1.450	-
A&AS	Various	Various : Various	-	-		2.500	Mar 2019	-		-		-	0.000	2.500	-
Other	Various	Various : Various	-	-		0.080	Mar 2019	-		-		-	0.000	0.080	-
Subtotal			-	-		4.030		-		-		-	0.000	4.030	N/A
			Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		49.500		-		-		-	0.000	49.500	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2020 Air Force

Date: February 2019

Appropriation/Budget Activity

3600 / 5

R-1 Program Element (Number/Name)

PE 1206445F / Commercial SATCOM
(COMSATCOM) Integration

Project (Number/Name)

650140 / COMSATCOM

	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	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
COMSATCOM Tools																												
COMSATCOM Tools Contract Award																												
COMSATCOM Tools Contract Execution																												
Enhanced COMSATCOM Procurement																												
Enhanced COMSATCOM Procurement Contract Award																												
Enhanced COMSATCOM Procurement Contract Execution																												
Enterprise Innovation Efforts																												
Enterprise Innovation Efforts projects identification/requirements																												
Enterprise Innovation Efforts projects vendor bid/awards																												
Enterprise Innovation Efforts projects execution																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force			Date: February 2019
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 1206445F / <i>Commercial SATCOM</i> (COMSATCOM) <i>Integration</i>	Project (Number/Name) 650140 / COMSATCOM	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
COMSATCOM Tools				
COMSATCOM Tools Contract Award	3	2019	3	2019
COMSATCOM Tools Contract Execution	3	2019	3	2020
Enhanced COMSATCOM Procurement				
Enhanced COMSATCOM Procurement Contract Award	3	2019	3	2019
Enhanced COMSATCOM Procurement Contract Execution	3	2019	4	2020
Enterprise Innovation Efforts				
Enterprise Innovation Efforts projects identification/requirements	2	2019	2	2019
Enterprise Innovation Efforts projects vendor bid/awards	3	2019	3	2019
Enterprise Innovation Efforts projects execution	3	2019	4	2020