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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Air Force										Date: February 2018		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0401218F / KC-135s							
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	-	0.000	9.942	3.493	0.000	3.493	0.000	0.000	0.000	0.000	Continuing	Continuing
675261: KC-135 Upgrades	-	0.000	9.942	3.493	0.000	3.493	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
The program will replace the obsolete Inmarsat Aero-I system with an Iridium system. Inmarsat's existing third generation satellites (I-3) which provide Aero-I services will no longer be functional after 2023. Aero-I services are used to provide oceanic Controller/Pilot Data Link Communications (CPDLC) to Air Traffic Control and Aircraft Communications Addressing and Reporting System (ACARS) Beyond Line of Sight (BLOS) Command and Control (C2) messages to 618th Tactical Air Control Center (TACC) Global Decision Support System. The procurement effort modifies 359 C/KC-135s and 19 Simulators. Funding may be used to address DMS issues.												
This program element may include necessary civilian pay expenses required to manage, execute, and deliver KC-135 weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F,0605832F, 0605898F, and 0605833F.												
This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.												
B. Program Change Summary (\$ in Millions)				FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total				
Previous President's Budget				0.000	9.942	3.519	0.000	3.519				
Current President's Budget				0.000	9.942	3.493	0.000	3.493				
Total Adjustments				0.000	0.000	-0.026	0.000	-0.026				
• 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	-0.026	0.000	-0.026				
C. Accomplishments/Planned Programs (\$ in Millions)									FY 2017	FY 2018	FY 2019	
Title: KC-135 Aero-I SATCOM									-	9.942	3.493	

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C. Accomplishments/Planned Programs (\$ in Millions)										FY 2017	FY 2018	FY 2019
Description: Development and Test of Iridium Aero-I. Aero-I services are used to provide oceanic Controller/Pilot Data Link Communications (CPDLC) to Air Traffic Control and Aircraft Communications Addressing and Reporting System (ACARS) Beyond Line of Sight (BLOS) Command and Control (C2) messages to 618th Tactical Air Control Center (TACC) Global Decision Support System. FY 2018 Plans: Development and Test of Iridium Aero-I SATCOM. FY 2019 Plans: Continued Development and Test of Iridium Aero-I SATCOM. FY 2018 to FY 2019 Increase/Decrease Statement: Funding decreased due to inflation adjustments and is appropriate for continued Development and Test of Iridium Aero-I SATCOM.												
Accomplishments/Planned Programs Subtotals										-	9.942	3.493
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost	
• APAF 05 Line Item C13500: C-135	64.161	69.428	113.076	-	113.076	124.491	104.383	108.192	110.159	Continuing	Continuing	
Remarks												
E. Acquisition Strategy TBD												
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 2019 Air Force													Date: February 2018		
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0401218F / KC-135s				Project (Number/Name) 675261 / KC-135 Upgrades					

Product Development (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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
Aero-I SATCOM replacement development	TBD	Not specified. : NV	-	-		9.442	Jun 2018	-		-		-	Continuing	Continuing	-
Subtotal			-	-		9.442		-		-		-	Continuing	Continuing	N/A

Remarks
This project will develop an Iridium SATCOM solution for the KC-135.

Test and Evaluation (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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
AERO-I SATCOM Test	TBD	Not specified. : NV	-	-		-		3.493	Mar 2019	-		3.493	Continuing	Continuing	-
Subtotal			-	-		-		3.493		-		3.493	Continuing	Continuing	N/A

Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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
AERO-I SATCOM Management Services	TBD	Not specified. : NV	-	-		0.500	Jun 2018	-		-		-	Continuing	Continuing	-
Subtotal			-	-		0.500		-		-		-	Continuing	Continuing	N/A

			Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		9.942		3.493		-		3.493	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Air Force										Date: February 2018				
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)				
3600 / 7					PE 0401218F / KC-135s					675261 / KC-135 Upgrades				

	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	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
KC-135 Aero-I Satcom replacement																												
Contract Award																												
EMD																												
Test																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Air Force			Date: February 2018
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0401218F / KC-135s	Project (Number/Name) 675261 / KC-135 Upgrades	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>KC-135 Aero-I Satcom replacement</i>				
Contract Award	3	2018	3	2018
EMD	3	2018	1	2019
Test	2	2019	2	2019