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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force										Date: May 2017		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development					PE 0401218F I KC-135s							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	9.942	0.000	9.942	3.519	0.000	0.000	0.000	Continuing	Continuing
675261: KC-135 Upgrades	-	0.000	0.000	9.942	0.000	9.942	3.519	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 338 C/KC-135s and 19 Simulators. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.												
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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total				
Previous President's Budget				0.000	0.000	0.000	0.000	0.000				
Current President's Budget				0.000	0.000	9.942	0.000	9.942				
Total Adjustments				0.000	0.000	9.942	0.000	9.942				
• 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	9.942	0.000	9.942				
Change Summary Explanation												
FY18 funding initiates a New Start for KC-135 AERO-I SATCOM Replacement.												
C. Accomplishments/Planned Programs (\$ in Millions)										FY 2016	FY 2017	FY 2018
Title: KC-135 Aero-I SATCOM										-	-	9.942

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>					R-1 Program Element (Number/Name) PE 0401218F / KC-135s						
C. Accomplishments/Planned Programs (\$ in Millions)								FY 2016	FY 2017	FY 2018	
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.											
Accomplishments/Planned Programs Subtotals								-	-	9.942	
D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u> <u>Base</u>	<u>FY 2018</u> <u>OCO</u>	<u>FY 2018</u> <u>Total</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• APAF: BA05: Line Item # C13500: C-135	48.868	64.136	69.428	0.000	69.428	87.804	102.479	105.326	109.104	0.00	587.145
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.											