Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force

Date: May 2017

Appropriation/Budget Activity

3600: Research, Development, Test & Evaluation, Air Force I BA 7:

Operational Systems Development

R-1 Program Element (Number/Name)
PE 0401314F / Operational Support Airlift

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	46.453	13.817	6.681	0.000	6.681	0.000	0.000	0.000	0.000	0.000	66.951
676024: VC-25 Avionics Modernization Program	0.000	46.453	13.817	6.681	0.000	6.681	0.000	0.000	0.000	0.000	0.000	66.951
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Program MDAP/MAIS Code: 425

A. Mission Description and Budget Item Justification

VC-25A Avionics Modernization Program (AMP) assures unrestricted global access to civilian and military airspace to support the President of the United States as Head of State, Chief Executive, and Commander in Chief. AMP upgrades use a systems approach to aid pilot awareness and alleviate task saturation enhancing safety in a high technology concentrated airspace environment. VC-25A AMP is a required modification to ensure the viability of the Presidential support airlift fleet until the Presidential Aircraft Recapitalization (PAR) program is fielded.

AMP complies with mandates for civil Automatic Dependent Surveillance-Broadcast (ADS-B) Out and Identification Friend or Foe (IFF) Mode 5 and provides an improved Advisory Vertical Navigation (VNAV) capability. It will incorporate multiple subsystems, to include, but not limited to, maneuver camera system, large cockpit displays, and navigation radios to increase the utility and safety of the VC-25A. Provisions for the military ADS-B Out will also be provided. Installations are aligned with the aircraft heavy maintenance schedule.

In FY 2018, Project 676024 VC-25 Avionics Modernization Program is complete.

BA-7 - 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.

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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air For	rce				Date: Ma	ay 2017	
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA Operational Systems Development	7:		ment (Number/Name) perational Support Airlift				
B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 C	OCO	FY 2018 T	otal
Previous President's Budget	46.453	13.817	6.662	0	.000	6.	.662
Current President's Budget	46.453	13.817	6.681		.000		.681
Total Adjustments	0.000	0.000	0.019		.000		.019
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	0.019	0	.000	0.	.019
C. Accomplishments/Planned Programs (\$ in Millions)				F	Y 2016	FY 2017	FY 2018
,							
Title: Design and Test Description: Design and Test efforts included stand-up of a Syst					46.453	13.817	6.68
Description: Design and Test efforts included stand-up of a Syst material buys for the SIL, as well as design, test and evaluation, a performed on the aircraft must be proven on the ground prior to in FY 2016 Accomplishments:	and installationstallation.				46.453	13.817	6.68
Description: Design and Test efforts included stand-up of a Syst material buys for the SIL, as well as design, test and evaluation, a performed on the aircraft must be proven on the ground prior to in	and installationstallation. t Test.				46.453	13.817	6.68
Description: Design and Test efforts included stand-up of a Syst material buys for the SIL, as well as design, test and evaluation, a performed on the aircraft must be proven on the ground prior to in FY 2016 Accomplishments: Funding used for material buys, Install kit, Ground Test and Flight FY 2017 Plans:	and installationstallationstallation. t Test.				46.453	13.817	6.68
Description: Design and Test efforts included stand-up of a Syst material buys for the SIL, as well as design, test and evaluation, a performed on the aircraft must be proven on the ground prior to in FY 2016 Accomplishments: Funding used for material buys, Install kit, Ground Test and Flight FY 2017 Plans: Funding will be used for Installation, Ground Test and Flight Test. FY 2018 Plans:	and installationstallationstallation. t Test.	on of the avionics sy		s to be	46.453 46.453	13.817	
Description: Design and Test efforts included stand-up of a Syst material buys for the SIL, as well as design, test and evaluation, a performed on the aircraft must be proven on the ground prior to in FY 2016 Accomplishments: Funding used for material buys, Install kit, Ground Test and Flight FY 2017 Plans: Funding will be used for Installation, Ground Test and Flight Test. FY 2018 Plans: Funding will be used for Installation, Ground Test and Flight Test.	and installationstallationstallation. t Test.	on of the avionics sy	stems. All modifications	s to be			
Description: Design and Test efforts included stand-up of a Syst material buys for the SIL, as well as design, test and evaluation, a performed on the aircraft must be proven on the ground prior to in FY 2016 Accomplishments: Funding used for material buys, Install kit, Ground Test and Flight FY 2017 Plans: Funding will be used for Installation, Ground Test and Flight Test. FY 2018 Plans: Funding will be used for Installation, Ground Test and Flight Test. D. Other Program Funding Summary (\$ in Millions)	and installationstallationstallation.	on of the avionics sy	stems. All modifications	s to be		13.817	6.68
Description: Design and Test efforts included stand-up of a Syst material buys for the SIL, as well as design, test and evaluation, a performed on the aircraft must be proven on the ground prior to in FY 2016 Accomplishments: Funding used for material buys, Install kit, Ground Test and Flight FY 2017 Plans: Funding will be used for Installation, Ground Test and Flight Test. FY 2018 Plans: Funding will be used for Installation, Ground Test and Flight Test. D. Other Program Funding Summary (\$ in Millions)	and installationstallationstallation. t Test. Y 2018 FY	Accomplishment	stems. All modifications	ubtotals	46.453	13.817 Cost To	6.68
Description: Design and Test efforts included stand-up of a Syst material buys for the SIL, as well as design, test and evaluation, a performed on the aircraft must be proven on the ground prior to in FY 2016 Accomplishments: Funding used for material buys, Install kit, Ground Test and Flight FY 2017 Plans: Funding will be used for Installation, Ground Test and Flight Test. FY 2018 Plans: Funding will be used for Installation, Ground Test and Flight Test. D. Other Program Funding Summary (\$ in Millions) Line Item FY 2016 FY 2017	and installationstallationstallation.	on of the avionics sy	stems. All modifications	s to be	46.453	13.817 Cost To Complete	6.68°

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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force		Date: May 2017
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 0401314F / Operational Support Airlift	
E. Acquisition Strategy VC-25A AMP is accomplished by developmental integration of commerce heavy maintenance depot schedules. An Undefinitized Contract Action (type contract April 2014. The CPIF contract covers the engineering RDT first kit, install and flight test was awarded in FY15 and concludes in FY1	(UCA) was issued in Jun 12. The UCA was definitized & E effort through Critical Design Review in FY15. Th	I with a Cost Plus Incentive Fee (CPIF)
F. Performance Metrics Please refer to the Performance Base Budget Overview Book for information Force performance goals and most importantly, how they contribute to our performance goals.		those resources are contributing to Air

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Exhibit R-3, RDT&E	Project C	ost Analysis: FY 2	2018 Air F	orce								Date.	May 2017		
Appropriation/Budg 3600 / 7	et Activity	1							umber/Na al Support				r/ Name) Avionics M	oderniza	tion
Product Developme	ent (\$ in Mi	illions)		FY 2	2016	FY 2	2017	FY 2 Ba	2018 ise	FY 2		FY 2018 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 o Contrac
VC-25 AMP Engineering	SS/CPIF	Oklahoma City : Tinker, AFB, OK	0.000	45.453	Feb 2016	12.817	Feb 2017	6.681	Jan 2018	0.000		6.681	0.000	64.951	-
		Subtotal	0.000	45.453		12.817		6.681		0.000		6.681	0.000	64.951	-
Support (\$ in Million	ıs)			FY 2	2016	FY 2	2017	FY 2 Ba	2018 ise	FY 2		FY 2018 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 Contrac
		·					1								
		Subtotal	-	-		-				-		-	-	-	-
Test and Evaluation	(\$ in Milli		-	- FY 2	2016	- FY 2	2017	- FY 2 Ba		- FY 2		FY 2018 Total	<u>- </u>	-	-
Test and Evaluation	(\$ in Milli Contract Method & Type		Prior Years	FY 2	2016 Award Date		2017 Award Date			FY 2		FY 2018	Cost To Complete	Total Cost	Target Value of Contrac
	Contract Method	ons) Performing	-		Award	FY 2	Award	Ва	se Award	FY 2	CO Award	FY 2018 Total		Total	Value of
	Contract Method & Type	Performing Activity & Location Subtotal	-	Cost -	Award	FY 2	Award	Cost -	Award Date	FY 2	Award Date	FY 2018 Total		Total	Value of
Cost Category Item	Contract Method & Type	Performing Activity & Location Subtotal	-	Cost -	Award Date	FY 2	Award Date	Cost -	Award Date	FY 2 OC Cost	Award Date	FY 2018 Total Cost		Total	Value of Contract
Cost Category Item Management Servic	Contract Method & Type es (\$ in M Contract Method	Performing Activity & Location Subtotal illions)	Years -	Cost -	Award Date	FY 2 Cost - FY 2	Award Date 2017 Award Date	Cost -	Award Date 2018 ase Award	FY 2	Award Date	FY 2018 Total Cost - FY 2018 Total	Cost To Complete	Total Cost -	Value of Contract
Cost Category Item Management Servic Cost Category Item VC-25 AMP Program	Contract Method & Type es (\$ in M Contract Method & Type	Performing Activity & Location Subtotal illions) Performing Activity & Location OC-ALC : Oklahoma	Years - Prior Years	Cost - FY 2	Award Date	Cost - FY 2	Award Date 2017 Award Date	Cost - FY 2 Ba Cost	Award Date 2018 ase Award	Cost FY2 O0 Cost Cost	Award Date	FY 2018 Total Cost - FY 2018 Total Cost	Cost To Complete 0.000	Total Cost - Total Cost	Value o Contrac
Cost Category Item Management Service Cost Category Item VC-25 AMP Program	Contract Method & Type es (\$ in M Contract Method & Type	Performing Activity & Location Subtotal illions) Performing Activity & Location OC-ALC: Oklahoma City, OK	Prior Years 0.000	Cost	Award Date	Cost FY 2 Cost 1.000	Award Date Award Date Jan 2017	Cost FY 2 Ba Cost 0.000 0.000	Award Date 2018 ase Award Date	FY 2 OC Cost FY 2 OC Cost 0.000	Award Date 2018 CO Award Date	FY 2018 Total Cost - FY 2018 Total Cost 0.000	Cost To Complete 0.000	Total Cost - Total Cost 2.000	Value of

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Exhibit R-4, RDT&E Schedule Profile: FY 2018	Air Fo	rce																		Date	e: M	ay 2	017			
Appropriation/Budget Activity 3600 / 7					PE 0401314F / Operational Support Airlift										67	Project (Number/Name) 676024 / VC-25 Avionics Moderni Program						niza	tioi			
	FY 2016 FY 20 ⁻⁷				017 FY 20			201	8	FY 2019			F'	Y 20 2	2020		FY 2021				FY 2022					
	1	2	3	4	1	2	3 4	4 1	2	3	4	1	2	3	4	1	2 3	4	1	2	3	4	1	2	3	4
Systems Integration Labratory engineering				,	,			·			'				,	·	,			·						
Kit #1 Procurement																										
Kit #1 Installation																									_	
Test and Evaluation																										

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Exhibit R-4A, RDT&E Schedule Details: FY 2018 Air Force			Date: May 2017
	, ,	, ,	umber/Name) 'C-25 Avionics Modernization

Schedule Details

	St	End				
Events	Quarter	Year	Quarter	Year		
Systems Integration Labratory engineering	1	2016	2	2016		
Kit #1 Procurement	1	2016	4	2016		
Kit #1 Installation	1	2017	4	2017		
Test and Evaluation	4	2017	4	2018		

Note

AMP contract award March 2012, followed by systems integration labratory engineering.

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