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 0401314F / Operational Support Airlift

Prior FY 2019 FY 2019 FY 2019 Cost To Total COST (\$ in Millions) FY 2017 **FY 2018** OCO Total FY 2020 FY 2021 FY 2022 FY 2023 Complete Cost **Years** Base **Total Program Element** 0.000 0.000 13.332 6.681 3.172 3.172 0.000 0.000 0.000 0.000 0.000 23.185 3.172 676024: VC-25 Avionics 0.000 13.332 6.681 3.172 0.000 0.000 0.000 0.000 0.000 0.000 23.185 Modernization Program Quantity of RDT&E Articles

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 VC-25B Presidential Aircraft Recapitalization 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.

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.

B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	13.817	6.681	0.000	0.000	0.000
Current President's Budget	13.332	6.681	3.172	0.000	3.172
Total Adjustments	-0.485	0.000	3.172	0.000	3.172
 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	-0.485	0.000			
SBIR/STTR Transfer	0.000	0.000			
Other Adjustments	0.000	0.000	3.172	0.000	3.172

PE 0401314F: Operational Support Airlift

Air Force

UNCLASSIFIED
Page 1 of 5

R-1 Line #294

Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Air Force

Appropriation/Budget Activity

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

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

Operational Systems Development

Change Summary Explanation

Funding reduction due to program restructure and to continue funding to completion.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2017	FY 2018	FY 2019
Title: Design and Test	13.332	6.681	3.172
Description: Design and Test efforts included stand-up of a Systems Integration Laboratory (SIL), non-recurring engineering, material buys for the SIL, as well as design, test and evaluation, and installation of the avionics systems. All modifications to be performed on the aircraft must be proven on the ground prior to installation.			
FY 2018 Plans: Funding will be used for Installation, Ground Test and Flight Test.			
FY 2019 Plans: Program restructure requires continued funding to completion.			
FY 2018 to FY 2019 Increase/Decrease Statement: Funding reduction due to program restructure and to continue funding to completion.			
Accomplishments/Planned Programs Subtotals	13.332	6.681	3.172

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

N/A

<u>Remarks</u>

E. Acquisition Strategy

VC-25A AMP is accomplished by developmental integration of commercial off-the-shelf systems, hardware procurement and installation is accomplished to align with heavy maintenance depot schedules. An Undefinitized Contract Action (UCA) was issued in Jun 12. The UCA was definitized with a Cost Plus Incentive Fee (CPIF) type contract April 2014. The CPIF contract covers the engineering RDT&E effort through Critical Design Review in FY15. The remaining RDT&E effort including the first kit, install and flight test was awarded in FY15 and concludes in FY18 with delivery of the first aircraft.

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.

PE 0401314F: Operational Support Airlift

Air Force Page 2 of 5

UNCLASSIFIED

Exhibit R-3, RDT&E	i i ojeci o														
Appropriation/Budget Activity 3600 / 7									umber/Na al Suppon	Project 676024 Progran	tion				
Product Developme	nt (\$ in Mi	llions)		FY 2017		FY 2	2018		2019 ise		2019 CO	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	Total Cost	Target Value of Contract
VC-25 AMP Engineering	SS/CPIF	Oklahoma City : Tinker, AFB, OK	-	12.332	Feb 2017	6.681	Jan 2018	3.172	Mar 2018	-		3.172	0.000	22.185	-
		Subtotal	-	12.332		6.681		3.172		-		3.172	0.000	22.185	N/A
Management Servic	es (\$ in M		-	12.332 FY 2	2017	6.681	2018	FY 2	2019 ase	FY	2019 CO	3.172 FY 2019 Total	0.000	22.185	N/A
Management Servic	es (\$ in M Contract Method & Type		Prior Years		2017 Award Date		2018 Award Date	FY 2		FY		FY 2019	Cost To	Total Cost	Target Value of
	Contract Method	illions) Performing	Prior	FY 2	Award Date	FY 2	Award	FY 2 Ba	ase Award	FY:	CO Award	FY 2019 Total	Cost To	Total	Target
Cost Category Item VC-25 AMP Program	Contract Method & Type	Performing Activity & Location OC-ALC : Oklahoma	Prior	FY 2	Award Date	FY 2	Award	FY 2 Ba	ase Award	FY:	CO Award	FY 2019 Total	Cost To Complete	Total Cost	Value of
Cost Category Item VC-25 AMP Program	Contract Method & Type	Performing Activity & Location OC-ALC : Oklahoma City, OK	Prior Years	FY 2 Cost 1.000	Award Date Jan 2017	FY 2	Award Date	FY:	ase Award	FY:	CO Award	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract

Remarks

PE 0401314F: Operational Support Airlift

Air Force

xhibit R-4, RDT&E Schedule Profile: PB 2019 Air Force									Date: February 2018																			
ppropriation/Budget Activity 600 / 7													1 / V	(Number/Name) I VC-25 Avionics Modernization														
	FY 2017 FY 20			2018	18 FY 2019						FY 2020				FY	202 ²	1		FY 2022				FY 202					
	1	2 3	4	1	2	3	4	1	2	3	4	1	2	3	3 4	1	2	3	4	1	2	2 3		4	1	2	3	4
AMP		Ÿ			,			,							,							,		,		·	·	
PMA																												
ADS-B Out NRE																												
EGPWS																												
Test and Evaluation 1																												
NRE																												
OGC/PMA 1																												
UFH Control																												

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Air Force		Date: February 2018
, , ,	 - 3 (umber/Name) 'C-25 Avionics Modernization

Schedule Details

	St	Start					
Events by Sub Project	Quarter	Year	Quarter	Year			
AMP							
PMA	4	2017	4	2018			
ADS-B Out NRE	4	2017	4	2017			
EGPWS	4	2017	4	2018			
Test and Evaluation 1	2	2018	4	2018			
NRE	2	2018	3	2018			
OGC/PMA 1	4	2018	4	2019			
UFH Control	1	2019	4	2021			
Test and Evaluation 2	2	2019	4	2019			

Note

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

PE 0401314F: Operational Support Airlift

Air Force