Exhibit R-2, RDT&E Budget Item	Justification	: PB 2013 A	ir Force						DATE: Feb	ruary 2012	
APPROPRIATION/BUDGET ACTI 3600: <i>Research, Development, Tes</i> BA 7: <i>Operational Systems Develop</i>	t & Evaluation	n, Air Force		1	IOMENCLA 4F: OPERAT		PORT AIRL	IFT			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	4.819	42.591	7.471	-	7.471	7.353	11.111	139.220	592.331	Continuing	Continuing
675355: Presidential Aircraft Recapitalization	4.819	3.091	7.471	-	7.471	7.353	11.111	139.220	592.331	Continuing	Continuing
676024: VC-25 AVIONICS MODERNIZATION PROGRAM	-	39.500	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

FY2013 funding request supports development planning for the Presidential Aircraft Recapitalization (PAR) effort.

The VC-25A Avionics Modernization Program (AMP) will enable the President of the United States to perform his duties as Commander in Chief. The VC-25A aircraft must maintain one hundred percent reliability and safe, unrestricted global access, both in civilian and military airfields. The AMP upgrades use a systems approach to aid pilot awareness and alleviate task saturation, enhancing safety in a high technology environment. It will incorporate multiple subsystems to increase the utility and safety of the VC-25A. Installations are aligned with the aircraft heavy maintenance schedule.

PAR will recapitalize the VC-25A system and support the Office of the President in executing Constitutional roles of Commander-in-Chief, Head-of-State, and Chief Executive. The principal mission of PAR is to provide the President of the United States and the President's staff and guests with safe, comfortable, and reliable air transportation with the same level of security and communications capability as is available at the White House. As a "national level" airborne communications node providing voice, data, video, processed imagery, and network services, PAR enables the President and traveling staff to address the full range of political and military operations. Funding supports key development planning efforts and products including: systems engineering strategy and analysis; risk analysis and management; concept definition and trade studies; test and evaluation strategy; Life Cycle Cost estimates; sustainment and logistics analysis; information support and network analysis; technology and manufacturing maturity analysis and acquisition planning and analysis.

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.

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air F	orce			DATE: F	ebruary 2012
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development		TEM NOMENCLA 401314F: OPERA	TURE TIONAL SUPPORT AIR	RLIFT	
B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	4.988	82.591	7.513	-	7.513
Current President's Budget	4.819	42.591	7.471	-	7.471
Total Adjustments	-0.169	-40.000	-0.042	-	-0.042
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-40.000			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-			
 Other Adjustments 	-0.169	-	-0.042	-	-0.042

Change Summary Explanation

FY11 Congressional General Reduction of 0.169M in Other Adjustment row.

FY12 Congressional Directed Reduction of 40M FY12 Defense Appropriations Act

FY13 funding decrease is due to higher Department of Defense priorities.

Exhibit R-2A, RDT&E Project Jus	stification: PE	3 2013 Air Fo	orce						DATE: Feb	ruary 2012	
APPROPRIATION/BUDGET ACTI 3600: Research, Development, Tes BA 7: Operational Systems Develo	st & Evaluation	n, Air Force			4F: OPERAT		PORT	PROJECT 675355: <i>Pr</i> e	esidential Air	rcraft Recapi	talization
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
675355: Presidential Aircraft Recapitalization	4.819	3.091	7.471	-	7.471	7.353	11.111	139.220	592.331	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

This funding supports development planning for the Presidential Aircraft Recapitalization (PAR) effort. PAR will recapitalize the VC-25A system and support the Office of the President in executing Constitutional roles of Commander-in-Chief, Head-of-State, and Chief Executive. The principal mission of PAR is to provide the President of the United States and the President's staff and guests with safe, comfortable, and reliable air transportation with the same level of security and communications capability as is available at the White House. As a "national level" airborne communications node providing voice, data, video, processed imagery, and network services, PAR enables the President and traveling staff to address the full range of political and military operations. Funding supports key development planning efforts and products including: systems engineering strategy and analysis; risk analysis and management; concept definition and trade studies; test and evaluation strategy; life cycle cost estimates; sustainment and logistics analysis; information support and network analysis; technology and manufacturing maturity analysis and acquisition planning and analysis.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Title: Development Planning	4.819	3.091	7.471
Description: Developmental Planning			
FY 2011 Accomplishments: Systems engineering strategy and analysis; risk reduction analysis and management; concept definition, requirements analysis and trade studies; test and evaluation strategy; life cycle cost estimates; sustainment and logistics analysis; information support and network analysis; technology and manufacturing maturity analysis; and acquisition planning.			
FY 2012 Plans: Systems engineering strategy and analysis; risk reduction analysis and management; concept definition, requirements analysis and trade studies; test and evaluation strategy; life cycle cost estimates; sustainment and logistics analysis; information support and network analysis; technology and manufacturing maturity analysis; and acquisition planning.			
FY 2013 Plans: Systems engineering strategy and analysis; risk reduction analysis and management; concept definition, requirements analysis and trade studies; test and evaluation strategy; life cycle cost estimates; sustainment and logistics analysis; information support and network analysis; technology and manufacturing maturity analysis; and acquisition planning.			
Accomplishments/Planned Programs Subtotals	4.819	3.091	7.471

Exhibit R-2A, RDT&E Project Jus	tification: PB	2013 Air For	ce						DATE: Feb	uary 2012	
APPROPRIATION/BUDGET ACTIN 3600: Research, Development, Tes BA 7: Operational Systems Develop	t & Evaluation,	Air Force		R-1 ITEM NC PE 0401314F AIRLIFT			PORT	PROJECT 675355: <i>Pre</i>	esidential Air	craft Recapi	talization
C. Other Program Funding Summ	nary (\$ in Milli	ons <u>)</u>									
• N/A: <i>N/A</i>	FY 2011 0.000	FY 2012 0.000	FY 2013 Base 0.000	000	FY 2013 Total 0.000	<u>FY 2014</u> 0.000	FY 2015 0.000		<u>FY 2017</u> 0.000	Cost To Complete Continuing	Total Cost

D. Acquisition Strategy

Acquisition strategy dependent on Milestone Decision Authority approval.

E. 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.

xhibit R-4, RDT&E Schedule Profile: PB 2013 Air Force		DATE: February 2012		
PPROPRIATION/BUDGET ACTIVITY 600: Research, Development, Test & Evaluation, Air Force	R-1 ITEM NOMENCLATURE PE 0401314F: OPERATIONAL SUPPORT	PROJECT 675355: Presidential Aircraft Recapitalization		
A 7: Operational Systems Development	AIRLIFT			

hibit R-4A, RDT&E Schedule Details: PB 2013 Air Force				D	ATE: Februa	ary 2012
PROPRIATION/BUDGET ACTIVITY 00: Research, Development, Test & Evaluation, Air Force 7: Operational Systems Development	R-1 ITEM NOMENCL PE 0401314F: OPER AIRLIFT			ROJECT 75355: <i>Pres</i>	idential Aircr	aft Recapitalizatio
	Schedule Details	i				
	Γ	Sta	rt		Er	nd
Events		Quarter	Year	(Quarter	Year
MDD		1	2012	2	1	2012
CDD		3	2014		3	2014
ASR		2	2014		1	2015
DAB		1	2015	;	1	2015
Large Aircraft LFT&E		1	2011		1	2012
Facilities Risk Reduction Study		1	2011		4	2011
Electrical Power Study		2	2011		2	2012
Acquisition Strategy Development		1	2011		1	2013
Develop RFP		2	2012	2	1	2014
Acquisition Strategy Panels		2	2014		4	2014
Preliminary Design		2	2016	;	4	2017
Source Selection		2	2015	;	1	2016
First Green Aircraft Purchase		1	2017	,	1	2017
RFP Release		1	2015	,	1	2015

Exhibit R-2A, RDT&E Project Jus	tification: PB	3 2013 Air Fo	brce						DATE: Feb	ruary 2012	
APPROPRIATION/BUDGET ACTI 3600: Research, Development, Tes BA 7: Operational Systems Develop	t & Evaluatior	n, Air Force		R-1 ITEM N PE 0401314 <i>AIRLIFT</i>			PORT	PROJECT 676024: V PROGRA	C-25 AVIONI	CS MODER	NIZATION
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cos
676024: VC-25 AVIONICS MODERNIZATION PROGRAM	-	39.500	-	-	-	-	-	-	-	Continuing	Continuin
Quantity of RDT&E Articles	0	0	0	0	0	0	0		0 0		
A. Mission Description and Budg The VC-25A AMP will enable the reliability and safe, unrestricted gl task saturation enhancing safety i	President of t obal access b n a high techr	he United St both in civilia hology envire	n and militar	y airfields. ∃	he AMP up	grades use a	a systems a	oproach to	aid pilot awar	eness and a	lleviate
are aligned with the aircraft heavy	[,] maintenance	somedule.									
are aligned with the aircraft heavy B. Accomplishments/Planned Pro									FY 2011	FY 2012	FY 2013
B. Accomplishments/Planned Pro Title: Design and Test Description: FY2012 funding supp for the SIL. The SIL is used as a te	ograms (\$ in ports System I est bed for VC	<u>Millions)</u> ntegration L -25, to ensu	re that all m	odifications t	be perform	ned on the a	ircraft have l	been	FY 2011 -	FY 2012 39.500	FY 2013
B. Accomplishments/Planned Pro Title: Design and Test Description: FY2012 funding supp for the SIL. The SIL is used as a te proven prior to installation. Kits wil FY 2012 Plans:	ograms (\$ in ports System I est bed for VC I be purchase	<u>Millions)</u> ntegration L -25, to ensu d and install	re that all me ed so that th	odifications t ey align with	be perform the aircraft	ned on the a heavy maint	ircraft have l	been	FY 2011 -		FY 2013
B. Accomplishments/Planned Pro Title: Design and Test Description: FY2012 funding supp for the SIL. The SIL is used as a te proven prior to installation. Kits wil	ograms (\$ in ports System I est bed for VC I be purchase	<u>Millions)</u> ntegration L -25, to ensu d and install	re that all me ed so that th	odifications t ey align with d material b	be perform the aircraft uys for the S	ned on the a heavy maint SIL.	ircraft have l enance sch	been edule.	FY 2011 -	39.500	FY 2013
B. Accomplishments/Planned Pro Title: Design and Test Description: FY2012 funding supp for the SIL. The SIL is used as a te proven prior to installation. Kits wil FY 2012 Plans:	ograms (\$ in ports System I est bed for VC I be purchase	<u>Millions)</u> ntegration L -25, to ensu d and install	re that all me ed so that th	odifications t ey align with d material b	be perform the aircraft uys for the S	ned on the a heavy maint	ircraft have l enance sch	been edule.	FY 2011 - -		FY 2013
B. Accomplishments/Planned Pro Title: Design and Test Description: FY2012 funding supp for the SIL. The SIL is used as a te proven prior to installation. Kits wil FY 2012 Plans:	ograms (\$ in ports System I est bed for VC I be purchase) engineering	<u>Millions)</u> ntegration L -25, to ensu d and install , Vendor eng	re that all me ed so that th gineering, an	odifications t ey align with d material b Acco	be perform the aircraft uys for the S	ned on the a heavy maint SIL.	ircraft have l enance sch	been edule.	FY 2011 - -	39.500	FY 2013
B. Accomplishments/Planned Pro Title: Design and Test Description: FY2012 funding supp for the SIL. The SIL is used as a te proven prior to installation. Kits wil FY 2012 Plans: System Integration Laboratory (SIL C. Other Program Funding Summ	ograms (\$ in ports System I est bed for VC I be purchase) engineering hary (\$ in Mill	<u>Millions)</u> ntegration L -25, to ensu d and install , Vendor eng ions)	re that all me ed so that th gineering, ar <u>FY 2013</u>	difications t ey align with d material b Acco FY 2013	b be perform the aircraft uys for the S nplishment FY 2013	ned on the a heavy maint SIL. ts/Planned I	ircraft have l enance sch Programs S	been edule.	-	39.500 39.500 <u>Cost To</u>	-
B. Accomplishments/Planned Pro Title: Design and Test Description: FY2012 funding supp for the SIL. The SIL is used as a te proven prior to installation. Kits wil FY 2012 Plans: System Integration Laboratory (SIL	ograms (\$ in ports System I est bed for VC I be purchase) engineering	<u>Millions)</u> ntegration L -25, to ensu d and install , Vendor eng	re that all me ed so that th gineering, an	odifications t ey align with d material b Acco	be perform the aircraft uys for the S nplishment	ned on the a heavy maint SIL.	ircraft have l enance sch	been edule. Subtotals	- - 6 FY 2017	39.500 39.500	- Total Cos
B. Accomplishments/Planned Pro <i>Title:</i> Design and Test <i>Description:</i> FY2012 funding supp for the SIL. The SIL is used as a te proven prior to installation. Kits wil <i>FY 2012 Plans:</i> System Integration Laboratory (SIL C. Other Program Funding Summ <u>Line Item</u> • PE: 0401314F, Avionics	ograms (\$ in ports System I est bed for VC I be purchase) engineering hary (\$ in Mill FY 2011	<u>Millions)</u> ntegration L -25, to ensu d and install , Vendor eng <u>ions)</u> <u>FY 2012</u>	re that all me ed so that th gineering, ar <u>FY 2013</u> <u>Base</u>	difications t ey align with d material b Acco <u>FY 2013</u> <u>OCO</u>	be perform the aircraft uys for the S mplishment <u>FY 2013</u> <u>Total</u>	ned on the a heavy maint sIL. ts/Planned I FY 2014	ircraft have l enance sch Programs S <u>FY 2015</u>	been edule. Subtotals <u>FY 201</u> 6.40	- 6 FY 2017 0 10.200	39.500 39.500 <u>Cost To</u> Complete	Total Cos Continuin
B. Accomplishments/Planned Pro Title: Design and Test Description: FY2012 funding supp for the SIL. The SIL is used as a te proven prior to installation. Kits wil FY 2012 Plans: System Integration Laboratory (SIL C. Other Program Funding Summ Line Item • PE: 0401314F, Avionics Moderniza: VC-25 AMP • PE: 0401314F, Airborne	ograms (\$ in ports System I est bed for VC be purchase) engineering hary (\$ in Mill <u>FY 2011</u> 0.000	Millions) ntegration L -25, to ensu d and install , Vendor eng ions) <u>FY 2012</u> 0.000	re that all me ed so that th gineering, an <u>FY 2013</u> <u>Base</u> 10.500	difications t ey align with d material b Acco <u>FY 2013</u> <u>OCO</u> 0.000	be perform the aircraft uys for the S mplishment <u>FY 2013</u> <u>Total</u> 10.500	ned on the a heavy maint silL. ts/Planned l <u>FY 2014</u> 11.200	ircraft have l enance sch Programs S <u>FY 2015</u> 0.000	been edule. Eubtotals <u>FY 201</u> 6.40 0.00	- <u>6</u> <u>FY 2017</u> 0 10.200 0 0.000	39.500 39.500 <u>Cost To</u> <u>Complete</u> Continuing	Total Cos Continuin Continuin

Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0401314F: OPERATIONAL SUPPORT	676024: VC	-25 AVIONICS MODERNIZATION
BA 7: Operational Systems Development	AIRLIFT	PROGRAM	

D. Acquisition Strategy

FY2012 funding request supports System Integration Laboratory (SIL) engineering, vendor engineering, and material buys for the SIL. The SIL is used as a test bed for VC-25, to ensure that all modifications to be performed on the aircraft have been proven prior to installation. Kits will be purchased and installed so that they align with the aircraft heavy maintenance schedule.

E. 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.

xhibit R-4, RDT&E Schedule Profile: PB 2013 Air Force		DATE: February 2012		
PPROPRIATION/BUDGET ACTIVITY 600: Research, Development, Test & Evaluation, Air Force A 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0401314F: <i>OPERATIONAL SUPPORT</i> <i>AIRLIFT</i>	PROJECT 676024: VC-25 AVIONICS MODERNIZATION PROGRAM		

nibit R-4A, RDT&E Schedule Details: PB 2013 Air Force				DA	ATE: Februa	ary 2012
PROPRIATION/BUDGET ACTIVITY 10: Research, Development, Test & Evaluation, Air Force 7: Operational Systems Development	R-1 ITEM NOMENC PE 0401314F: OPE AIRLIFT			PROJECT 576024: VC-28 PROGRAM	5 AVIONICS	MODERNIZAT
	Schedule Detail			Γ		-
		Sta	art		En	d
E vente			Veer	-		
Events		Quarter	Year	· Q	uarter	Year
Systems Integration Labratory engineering		Quarter 1	2012		4	Year 2012
		Quarter 1 1		2		
Systems Integration Labratory engineering		Quarter 1 1 2	2012	3	4	2012
Systems Integration Labratory engineering Kit Procurement		1 1	2012 2013	2 3 4	4 4	2012 2013