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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Air Force **Date:** February 2020

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0401310F / <i>C-32 Executive Transport Recapitalization</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	9.908	0.000	9.908	9.938	10.116	10.296	0.000	0.000	40.258
640009: <i>C-32 Executive Transport Recap</i>	-	0.000	0.000	9.908	0.000	9.908	9.938	10.116	10.296	0.000	0.000	40.258
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

NOTE: FY18-20 Prior Years Funding of \$18.837M was executed in Program Element 040130F, BPAC 654019, BA05.

The C-32A mission is to provide Executive Airlift transportation for the First Lady, Vice President, Cabinet, Congress, and foreign Heads of State. The C-32A also serves as the backup to the VC-25 Presidential support aircraft.

The C-32A Executive Transport Recapitalization program will replace the aging C-32A aircraft fleet. The Air Force and Navy engaged in an effort to recapitalize the National Military Command System fixed-wing aircraft and large capacity Executive Airlift fleets. The affected platforms consist of the Air Force E-4B National Airborne Operations Center (NAOC), Air Force C-32A Executive Airlift (EA), and the Navy E-6B Airborne Command Post (ABNCP) and Take Charge and Move Out (TACAMO) aircraft. These platforms are aging and increasingly difficult to support. The combined effort explored the realignment of missions among platforms and examined the potential benefits of acquiring common airframes without degrading operational effectiveness or increasing overall costs. This was conducted through the NEAT (N=NAOC, E=EA, A= ABNCP, T=TACAMO) Analysis of Alternatives (AoA).

This budget supports funding to complete a joint service AoA in collaboration with the E-4B and E-6B Recapitalization programs to explore commonality of the airframe and interoperability of the mission equipment. Funding continues establishment of the Program Office and matures the development of the acquisition strategy. Funding also supports cost/performance trade studies and risk reduction activities.

Funds may be used to address emerging and short-notice Diminishing Manufacturing Sources and Material Shortage (DMSMS) issues.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver C-32A weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605831F.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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B. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	9.908	0.000	9.908
Total Adjustments	0.000	0.000	9.908	0.000	9.908
• 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	9.908	0.000	9.908

Change Summary Explanation

In FY 2021 for PE 0401310F, C-32 Executive Transport Recapitalization, Project 640009, C-32 Executive Transport Recap efforts were transferred from PE 0401310F, C-32 Executive Transport Recapitalization, Project 654019, C-32 Executive Transport Recap, in order to reflect the appropriate budget activity for these funds.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021
Title: C-32A Executive Transport Recapitalization Materiel Development Decision (MDD)	0.000	0.000	7.000
Description: Refine AoA activities to assess potential materiel solutions and inform the Materiel Development Decision (MDD) to mitigate current capability gaps.			
FY 2020 Plans: Funding for this effort was executed in BA05 within PE 0401310F.			
FY 2021 Plans: Funds in FY21 will refresh AoA analysis and studies to inform technical risk areas, continue Materiel Development Decision (MDD) activities, advance material solution analysis, conduct technology maturation risk reduction activities, prepare the acquisition strategy, and begin the Capability Development Document (CDD).			
FY 2020 to FY 2021 Increase/Decrease Statement: FY20 prior year funding was executed in BA05 within PE 0401310F.			
Title: C-32 Executive Transport Recapitalization Program Office Standup	0.000	0.000	2.908
Description: Continue standup of Program Office to support AoA closeout and early acquisition activities.			

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Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0401310F I C-32 Executive Transport Recapitalization
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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021
<p>FY 2020 Plans: Funding for this effort was executed in BA05 within PE 0401310F.</p> <p>FY 2021 Plans: Funds in FY2021 continue support of the Materiel Development Decision (MDD), conduct early acquisition activities, Program Office support tasks, A&AS costs, travel, and PMA</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: FY20 prior year funding was executed in BA05 within PE 0401310F.</p>			
Accomplishments/Planned Programs Subtotals	0.000	0.000	9.908

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

<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2021</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
			<u>Base</u>	<u>OCO</u>	<u>Total</u>						
• RDTE 05 0401310F: C-32 Executive Transport Recapitalization	5.989	9.930	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	15.919

Remarks

E. Acquisition Strategy
 Post AoA MDD for acquisition strategy planned for 1st quarter 2021. Early acquisition strategy will include technology maturation risk reduction phase and follow-on Pre-MS B entry.
 - Early focus on Technology Maturation Risk Reduction on critical performance capabilities identified during material solution analysis phase (AoA) to support technical maturity of key capability areas identified via the AoA assessments and analysis and inform requirements for CDD generation
 - Risk reduction activities and technology maturity assessments outcome will be used to further develop acquisition strategy for a Pre-milestone B entry and subsequent solicitation for a full and open competition

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Air Force **Date:** February 2020

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0401310F / C-32 Executive Transport Recapitalization	Project (Number/Name) 640009 / C-32 Executive Transport Recap
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Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Product Development	C/TBD	TBD : TBD	-	0.000		0.000		-		-		-	Continuing	Continuing	-
C-32 Executive Transport Recapitalization: Analysis of Alternatives	MIPR	TBD : TBD	-	0.000		0.000		7.000	Apr 2021	-		7.000	Continuing	Continuing	-
Subtotal			-	0.000		0.000		7.000		-		7.000	Continuing	Continuing	N/A

Remarks
FY18-20 Prior Years Funding was executed in PE 040130F, BPAC 654019, BA05

Management Services (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
C-32 Executive Transport Recapitalization: PMA Contractor Services and PMA Other Government Costs	Various	TBD : Dayton, OH	-	0.000		0.000		2.908	Jan 2021	-		2.908	Continuing	Continuing	-
Subtotal			-	0.000		0.000		2.908		-		2.908	Continuing	Continuing	N/A

Remarks
FY18-20 Prior Years Funding of was executed in PE 040130F, BPAC 654019, BA05

Project Cost Totals	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
	-	0.000	0.000	9.908	-	9.908	Continuing	Continuing	N/A

Remarks
-FY2018-2020 RDT&E Funding (\$18.837M) was executed in PE 0401310F, BPAC 654019, BA05

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Air Force		Date: February 2020
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0401310F / C-32 Executive Transport Recapitalization	Project (Number/Name) 640009 / C-32 Executive Transport Recap

FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
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

C-32 Recap	
Acquisition Strategy Development	████
Post AoA MDD	████
Staff Report	████
Capability Development Document (CDD)	████████████████████
Technology Maturation Risk Reduction	██

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Air Force		Date: February 2020
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0401310F / C-32 Executive Transport Recapitalization	Project (Number/Name) 640009 / C-32 Executive Transport Recap

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
C-32 Recap				
Acquisition Strategy Development	1	2021	1	2021
Post AoA MDD	1	2021	1	2021
Staff Report	1	2021	1	2021
Capability Development Document (CDD)	2	2021	2	2022
Technology Maturation Risk Reduction	2	2021	4	2024

Note

This R-4 reflects EMD ending fourth quarter 2025. The EMD schedule begins the third quarter of 2025 and ends the fourth quarter of 2027. System limitations do not reflect schedules extending beyond 2025.