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

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 0607138A / Fixed Wing Product Improvement Program
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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	-	2.146	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	2.146
ES5: Fixed Wing Product Improvement Program	-	2.146	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	2.146

Note

Fiscal Year (FY) 2021 funding request has decreased to \$0.

A. Mission Description and Budget Item Justification

The budget line provides for Fixed Wing (FW) fielded fleet Non-Recurring Engineering (NRE), development of supplemental type certificates (STC) and associated developmental testing, and integration of all Army Fixed Wing Aircraft to provide Communications, Navigation and Surveillance (CNS), Aircraft Survivability Equipment (ASE), modifications in service, and Department of Defense (DoD) mandated safety equipment to meet current and evolving international and Army standards. As requirements for new avionics equipment evolve, aircraft delays and airspace exclusions are likely for aircraft not properly equipped. Upgrade of communication and aircraft modifications assures worldwide deployability for those required to deploy. This budget line provides funding for studies, evaluations and Analysis of Alternatives to support emerging Army Fixed Wing requirements for product improvements to support the FW fleet. This budget line also provides funding for continued Test and Evaluation of Fixed Wing Aircraft.

B. Program Change Summary (\$ in Millions)

	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO</u>	<u>FY 2021 Total</u>
Previous President's Budget	2.280	4.545	1.920	-	1.920
Current President's Budget	2.146	0.000	0.000	-	0.000
Total Adjustments	-0.134	-4.545	-1.920	-	-1.920
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-4.545			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.134	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-1.920	-	-1.920

Change Summary Explanation

FY 2021 funding request has decreased to \$0.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
Appropriation/Budget Activity 2040 / 7				R-1 Program Element (Number/Name) PE 0607138A / Fixed Wing Product Improvement Program				Project (Number/Name) ES5 / Fixed Wing Product Improvement Program				
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
ES5: Fixed Wing Product Improvement Program	-	2.146	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	2.146
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Fiscal Year (FY) 2021 funding request has decreased to \$0.

A. Mission Description and Budget Item Justification

The budget line provides for Fixed Wing (FW) fielded fleet Non-Recurring Engineering (NRE), development of supplemental type certificates (STC) and associated developmental testing, and integration of all Army Fixed Wing Aircraft to provide Communications, Navigation and Surveillance (CNS), Aircraft Survivability Equipment (ASE), modifications in service, and Department of Defense (DoD) mandated safety equipment to meet current and evolving international and Army standards. As requirements for new avionics equipment evolve, aircraft delays and airspace exclusions are likely for aircraft not properly equipped. Upgrade of communication and aircraft modifications assures worldwide deployability for those required to deploy. This budget line provides funding for studies, evaluations and Analysis of Alternatives to support emerging Army fixed wing requirements for product improvements to support the FW fleet. This budget line also provides funding for continued Test and Evaluation of Fixed Wing Aircraft.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2019	FY 2020	FY 2021
Title: Program Management (PM)	0.215	-	-
Description: Program Management support for Fixed Wing (FW) Aircraft efforts			
Title: Test And Evaluation	1.115	-	-
Description: Support studies, test and evaluations, and Analysis of Alternatives to support emerging Army FW requirements for product improvements to support the FW fleet.			
Title: Support Cost	0.816	-	-
Description: Non-recurring Engineering Support for FW Aircraft			
Accomplishments/Planned Programs Subtotals	2.146	-	-

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

Line Item	FY 2019	FY 2020	FY 2021			FY 2022	FY 2023	FY 2024	FY 2025	Cost To	
			Base	OCO	Total					Complete	Total Cost
• A11300: Utility F/W Aircraft	18.644	-	0.000	-	0.000	-	-	-	-	0.000	18.644
• AA0270: Utility/ Cargo Airplane Mods	17.719	21.838	13.868	-	13.868	-	-	-	-	Continuing	Continuing

Remarks

The A11300 Utility F/W Aircraft (Aircraft Procurement Army (APA) P-1 Line #1) budget line provides for the acquisition of Army Fixed Wing Aircraft in support of mission requirements, training, and other support activities. The AA0270 Utility/Cargo Airplane Mods (Aircraft Procurement Army (APA) P-1 Line #24) provides for aircraft modification in support of Fixed Wing programs.

D. Acquisition Strategy

The US Army Fixed Wing acquisition and modernization strategy leverages commercial derivative aircraft through the use of supplemental type certificates (STC) and associated testing and includes cockpit modernization for civil and tactical upgrades of military unique equipment and integration of Communications, Navigation and Surveillance (CNS) and Aircraft Survivability Equipment (ASE).

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

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607138A / Fixed Wing Product Improvement Program	Project (Number/Name) ES5 / Fixed Wing Product Improvement Program
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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			
Program Management Support	Various	PM Fixed Wing : Redstone Arsenal, AL	0.585	0.215	Jan 2019	-		-		-		-	0.190	0.990	-
Subtotal			0.585	0.215		-		-		-		-	0.190	0.990	N/A

Remarks
FY 2021 funding request has decreased to \$0.

Support (\$ 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			
Fixed Wing Non-recurring Engineering	Various	Various : Various	1.806	1.115	Mar 2019	-		-		-		-	0.866	3.787	-
Subtotal			1.806	1.115		-		-		-		-	0.866	3.787	N/A

Remarks
FY 2021 funding request has decreased to \$0.

Test and Evaluation (\$ 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			
Testing Support	Various	Various : Various	8.080	0.816	Jun 2019	-		-		-		-	0.864	9.760	-
Subtotal			8.080	0.816		-		-		-		-	0.864	9.760	N/A

Remarks
FY 2021 funding request has decreased to \$0.

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
	10.471	2.146	0.000	-	-	-	1.920	14.537	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army							Date: February 2020			
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	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army			Date: February 2020
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607138A / Fixed Wing Product Improvement Program	Project (Number/Name) ES5 / Fixed Wing Product Improvement Program	

Event Name	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
FW Non-Recurring Engineering	[Redacted]				FW Non-Recurring Engineering																							
Testing Support	[Redacted]				Testing Support																							

Note
 FY19 Funds: \$2.146 million FY20 Funds: \$0 million FY21 Funds: \$0 million

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Army		Date: February 2020
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607138A / <i>Fixed Wing Product Improvement Program</i>	Project (Number/Name) ES5 / <i>Fixed Wing Product Improvement Program</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
FW Non-Recurring Engineering	1	2019	4	2019
Testing Support	1	2018	4	2019