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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605241A / <i>Future Long Range Assault Aircraft Development</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	-	-	1,253.637	-	1,253.637	843.708	826.934	697.946	725.788	Continuing	Continuing
DG5: <i>Future Long Range Assault Aircraft</i>	-	-	-	1,253.637	-	1,253.637	843.708	826.934	697.946	725.788	Continuing	Continuing

Note

Future Long Range Assault Aircraft Development is a new start in FY 2025.

A. Mission Description and Budget Item Justification

This funding line directly aligns to the Future Vertical Lift (FVL) Army modernization priority. Future Vertical Lift (FVL) is an initiative to develop a family of vertical lift aircraft for the United States Armed Forces. The Department of Defense (DOD) established FVL to focus vertical lift capabilities and technology development as well as retain long-term industrial base capabilities. The Deputy Secretary of Defense issued the FVL Strategic Plan in 2012 to outline a joint approach for the next generation vertical lift aircraft for all military services. The Strategic Plan provided a foundation for replacing the current fleet with advanced capability by shaping the development of vertical lift aircraft for the next 25 to 40 years. In Fiscal Year (FY) 2017, the Army identified FVL as one of the Army's six modernization priorities, and established the FVL Cross Functional Team (CFT). The FVL objectives are increased vertical lift maneuverability, range, speed, payload, survivability, and reliability while reducing the logistics footprint. This capability will provide critical vertical lift aviation capability in multi-domain operations to the joint warfighter and maneuver force.

The Future Long Range Assault Aircraft (FLRAA) program pursues FVL Capability Set 3 (CS3) and provides Combatant Commanders with deterrence, power projection, and tactical capabilities at operational and strategic distances. The Army competitively awarded the weapon system development contract in December 2022, using a hybrid acquisition approach. The contract award initiates the Rapid Prototyping effort to execute a preliminary design and development of FLRAA Virtual Prototypes, using Middle Tier of Acquisition (MTA) authorities.

FLRAA integrates advanced technologies, using a modular open systems approach, and design configurations with appropriate trades to ensure affordability.

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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	1,253.637	-	1,253.637
Total Adjustments	0.000	0.000	1,253.637	-	1,253.637
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	1,253.637	-	1,253.637

Change Summary Explanation

In Fiscal Year 2025 (FY25), funding previously planned in Program Element 0603801A Project B47 transitions to Program Element 0605241A / Future Long Range Assault Aircraft Development, Project DG5 / Future Long Range Assault Aircraft, to support Budget Activity guidance for programs achieving Milestone B.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605241A / <i>Future Long Range Assault Aircraft Development</i>				Project (Number/Name) DG5 / <i>Future Long Range Assault Aircraft</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
DG5: <i>Future Long Range Assault Aircraft</i>	-	-	-	1,253.637	-	1,253.637	843.708	826.934	697.946	725.788	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Future Long Range Assault Aircraft is a new start within the Future Long Range Assault Aircraft Development program in FY 2025.

Transitions funds previously planned in Program Element 0603801A Project B47 to Program Element 0605241A Project DG5 to support execution for programs achieving Milestone B in accordance with the Financial Management Regulation.

A. Mission Description and Budget Item Justification

The Future Long Range Assault Aircraft Development Project's funding provides for the development of a Future Long Range Assault Aircraft (FLRAA) Capability Set 3 weapon system within the FVL family of systems. FLRAA will conduct air assault, urban assault/security, maritime interdiction, medical evacuation, humanitarian assistance/disaster relief, tactical resupply, direct action, noncombatant evacuation operation, and combat search and rescue operations. FLRAA will support the Army, including Special Operations Command (USSOCOM) and the Joint Force, in a contested, near peer threat environment. The FLRAA weapon system will retain the Army's ability to project combat power with transformational increases in range, speed, mobility, and payload over current Army and USSOCOM aircraft.

FLRAA achieved a Materiel Development Decision approval in October 2016 and the Office of Secretary of Defense granted a sufficiency determination of the Analysis of Alternatives (AoA) in July 2019.

The Fiscal Year (FY) 2025 budget request funds post Milestone B activities and continued development of a digital backbone architected to meet Modular Open System Approach (MOSA) objectives, and developmental prototype assembly and integration for qualification and test.

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

	FY 2023	FY 2024	FY 2025
Title: Future Long Range Assault Aircraft Weapon System Development	-	-	1,253.637
Description: Execution of the Future Long Range Assault Aircraft (FLRAA) Engineering and Manufacturing Development phase of the Acquisition Cycle. This includes all developmental engineering, prototype manufacturing, test and qualification, supportability planning, and systems engineering and program management activities.			
FY 2025 Plans: Complete design activities culminating in the FLRAA Weapon System Critical Design Review, continue aircraft prototype manufacturing for EMD aircraft prototypes one through six, continue maturing Government Furnished Equipment (GFE) for prototype integration and developmental testing (such as communications, navigation, sensors, and aircraft survivability)			

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605241A / <i>Future Long Range Assault Aircraft Development</i>	Project (Number/Name) DG5 / <i>Future Long Range Assault Aircraft</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
equipment). Continue maturation of critical enabling capabilities (such as digital engineering infrastructure and digital engineering tools), and begin to manufacture FLRAA EMD aircraft prototypes seven and eight, which will support Limited User Test (LUT).			
FY 2024 to FY 2025 Increase/Decrease Statement: Funding transitioned from BA4 Program Element 0604801A Project B47. A funding increase from FY 2024 levels is required in FY 2025 due to the increased cost of materials and manufacturing labor associated with building the FLRAA EMD aircraft prototypes.			
Accomplishments/Planned Programs Subtotals	-	-	1,253.637

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• B47: <i>Future Vertical Lift</i>	202.522	1,027.608	0.000	-	0.000	-	-	-	-	0.000	1,230.130
• CS7: <i>FLRAA MTA</i>	462.255	16.536	6.591	-	6.591	-	-	-	-	0.000	485.382
• A12002: <i>Future Long Range Assault Aircraft (FLRAA)</i>	-	-	0.000	-	0.000	-	265.937	438.536	787.364	0.000	1,491.837

Remarks

Program Element 0603465A Future Vertical Lift Advanced Technology includes Joint Multi-Role Technology Demonstration (JMR-TD); supported flying demonstrator activities providing knowledge transfer from flight test, data analysis, Soldier touch points, and risk reduction activities to the FLRAA program.

Project CS7 includes all FLRAA MTA efforts from FY 2023 through FY 2025, which was initiated as a planned accomplishment under Project B47 in FY 2022.

Project B47 includes all FLRAA pre-MDAP risk reduction efforts initiated prior to Milestone B, including the Competitive Demonstration and Risk Reduction Other Transaction Authority agreements and subsystem design risk reduction efforts awarded on the FLRAA Weapon System Development Contract.

Army Program Element A12002 includes all FLRAA procurement funding in FY 2027 and beyond.

D. Acquisition Strategy

The Army is executing a hybrid acquisition approach to design, develop, and deliver the FLRAA weapons system. In order to support the Army's modernization strategy and concept for multi-domain operations, the FLRAA program will deliver the first aircraft in FY 2030. This hybrid approach builds on the JMR-TD efforts (started in 2013); the Army's AoA (completed in July 2019); and multiple risk mitigation efforts.

The Army's risk mitigation activities ahead of the Weapon System Development contract award have included: (1) additional conceptual design and flight envelope expansion tasks on the existing JMR-TD Technology Investment Agreement (TIA); (2) MOSA, FVL Architecture Collaboration Working Group (with participation from industry and academia) to establish a common architecture requirements framework for FLRAA system development; and (3) a CD&RR effort, awarded to two Project

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605241A / <i>Future Long Range Assault Aircraft Development</i>	Project (Number/Name) DG5 / <i>Future Long Range Assault Aircraft</i>
<p>Agreement Holders (PAH), using an Aviation Missile and Technology Consortium (AMTC) Other Transaction Authority (OTA) agreements to provide substantiating technical documentation on weapon system designs, requirements decompositions, trade-studies, and requirements feasibility for the FLRAA Weapon System Development.</p> <p>These risk reduction activities have maintained industry engagement and momentum from the JMR-TD program, informed capabilities and system requirements, and provided initial trade assessments for the final operational requirements. They also informed the final acquisition strategy, matured the Government's architecture requirements, and transitioned appropriate Science & Technology investments to the PoR. CD&RR Phase II incorporated efforts leading to preliminary design using a digital engineering environment. The Army competitively awarded the Weapon System Development contract in December 2022 to one vendor with a hybrid acquisition approach. This approach includes the opportunity to employ new DoDI 5000.80 (Operation of the Middle Tier of Acquisition (MTA)) authorities along with a tailored DoDI 5000.85 (Major Capability Acquisition) acquisition strategy.</p> <p>Finally, the Army is also addressing life cycle affordability, sustainability, and maintainability early in the program. The FLRAA program is employing multiple strategies including: cost reduction opportunities, use of a digital thread from design through sustainment, and stochastic sustainment modeling. Additionally, FLRAA is one of the Army's pilot programs for digital engineering and life cycle intellectual property and data strategy development.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605241A / <i>Future Long Range Assault Aircraft Development</i>	Project (Number/Name) DG5 / <i>Future Long Range Assault Aircraft</i>
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Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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 and Operations Contract Support	C/FFPLOE	SMX : Redstone Arsenal, AL	-	-		-		6.075	Mar 2025	-		6.075	Continuing	Continuing	-
Government Operations	Various	PEO Aviation : Redstone Arsenal, AL	-	-		-		2.570	Dec 2024	-		2.570	Continuing	Continuing	-
Subtotal			-	-		-		8.645		-		8.645	Continuing	Continuing	N/A

Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Prototype Material - Government Furnished Equipment	Various	Various : Various/ Redstone Arsenal	-	-		-		18.053	Dec 2024	-		18.053	Continuing	Continuing	-
Prototype Material and Manufacturing Development (EMD)	C/Various	Bell Textron, Inc. : Fort Worth, TX	-	-		-		1,128.502	Nov 2024	-		1,128.502	Continuing	Continuing	-
Subtotal			-	-		-		1,146.555		-		1,146.555	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Acquisition and Supportability Analysis	Various	AMCOM ALC, CCDC AvMC : Redstone Arsenal, AL	-	-		-		8.269	Nov 2024	-		8.269	Continuing	Continuing	-
Enterprise Logistics and Support Analysis	Various	Various : Redstone Arsenal, AL	-	-		-		2.939	Mar 2025	-		2.939	Continuing	Continuing	-
Airworthiness and Engineering Support	Various	AvMC CCDC : Redstone Arsenal, AL	-	-		-		29.419	Jan 2025	-		29.419	Continuing	Continuing	-

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Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Contracted Engineering and Technical Services	C/FFPLOE	Various : Huntsville, AL	-	-		-		16.709	Jan 2025	-		16.709	Continuing	Continuing	-
Enterprise Common Technical Support to Programs	Various	Various : Redstone Arsenal, AL	-	-		-		19.097	Mar 2025	-		19.097	Continuing	Continuing	-
Enterprise Architecture Convergence and Holistic Survivability	Various	Various : Huntsville, AL	-	-		-		9.905	Mar 2025	-		9.905	Continuing	Continuing	-
Adaptive Work Environment Enabling Infrastructure and Support	Various	Various : Huntsville, AL	-	-		-		4.923	Mar 2025	-		4.923	Continuing	Continuing	-
Contract Administration and Support	MIPR	Army Contracting Command - Redstone Arsenal : Redstone Arsenal, AL	-	-		-		2.184	Nov 2024	-		2.184	Continuing	Continuing	-
Subtotal			-	-		-		93.445		-		93.445	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Government Test and Evaluation Planning and Support	Various	Redstone Test Center : Redstone Arsenal, AL	-	-		-		4.992	Dec 2024	-		4.992	Continuing	Continuing	-
Subtotal			-	-		-		4.992		-		4.992	Continuing	Continuing	N/A

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-	-	1,253.637	-	1,253.637	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605241A / <i>Future Long Range Assault Aircraft Development</i>	Project (Number/Name) DG5 / <i>Future Long Range Assault Aircraft</i>

Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	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
Architecture Definition and Risk Reduction									[Bar]																			
Residual Preliminary Design and Detail Design													[Bar]															
Prototype Builds									[Bar]				[Bar]															
Prototype Deliveries													[Bar]				[Bar]											
Developmental Testing													[Bar]				[Bar]											
Limited User Test (LUT)																					[Bar]							

Note
This Program Element funds the Engineering and Manufacturing Development phase of the Future Long Range Assault Aircraft program, with previous activities executed under Program Element 0603201A/Aviation - Adv Dev, Project B47/Future Vertical Lift.

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605241A / <i>Future Long Range Assault Aircraft Development</i>	Project (Number/Name) DG5 / <i>Future Long Range Assault Aircraft</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Architecture Definition and Risk Reduction	1	2025	4	2026
Residual Preliminary Design and Detail Design	1	2025	1	2025
Prototype Builds	1	2025	3	2027
Prototype Deliveries	2	2026	1	2028
Developmental Testing	2	2026	1	2030
Limited User Test (LUT)	2	2028	3	2028