

UNCLASSIFIED

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 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605606A / <i>Aircraft Certification</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
Total Program Element	-	4.777	2.718	2.201	-	2.201	2.205	2.228	2.253	2.275	Continuing	Continuing
092: <i>Aircraft Certification</i>	-	4.777	2.718	2.201	-	2.201	2.205	2.228	2.253	2.275	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Airworthiness Certification Program Element (PE) assures safe flight operation of Army aircraft and aviation systems by means of technical design approval and qualification of systems to appropriate airworthiness standards. This PE supports independent airworthiness qualification for all assigned developmental and in-production Army aircraft, both manned and unmanned, as required by Army Regulation (AR) 70-62 ("Airworthiness of Aircraft Systems"), and is essential for assuring the safe operation of Army aircraft. This PE performs engineering functions (design, analysis, testing, demonstrations, and system specification compliance) essential for certifying the airworthiness of nearly 20,000 assigned Army aircraft. This PE also supports: management/execution of the Army Military Airworthiness Certification Criteria (AMACC) program; management/execution of airworthiness approval for new systems and materiel changes for all assigned Army aircraft systems; airworthiness engineering support for major development/modification and future systems/subsystems requirements of the Program Executive Officer for Aviation (PEO AVN) and U.S. Army Special Operations Command's Technology Applications Program Office (TAPO); and management of test and evaluation processes in support of the airworthiness qualification process. The Airworthiness Certification PE also performs general research and development in support of aircraft qualification and overarching airworthiness projects that involve multiple aircraft models, and supports the application of other critical aviation subsystems onto Army aircraft.

This PE also supports: airworthiness certification for military-use civil derivative aircraft technical qualification through the Federal Aviation Administration's Military Certification Office; development of airworthiness procedures, specifications, critical standards, and other design and qualification documents; participation in senior leadership mandated airworthiness tri-service activities (e.g., National Airworthiness Council) and international airworthiness related activities mandated by treaty (e.g., Flight Into Non-segregated Airspace (FINAS)). The Aircraft Certification line is the only legal means per fiscal law to proactively establish certification criteria for priority research areas per the Army Modernization Strategy being leveraged in Army Aviation programs of record. This includes airworthiness involvement in Technology Transition projects such as the Future Long Range Assault Aircraft, Advanced Unmanned Aircraft Systems, Modular Open System Architecture, Autonomy/Artificial Intelligence/Machine Learning, Digital Engineering, Electric and Hybrid Propulsion and additive manufacturing.

Work in this Project is performed by the United States Army Futures Command (AFC), U.S. Army Combat Capabilities Development Command (DEVCOM), Aviation & Missile Center (AvMC), Redstone Arsenal, AL.

UNCLASSIFIED

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 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605606A / <i>Aircraft Certification</i>
--	---

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	4.777	2.718	2.253	-	2.253
Current President's Budget	4.777	2.718	2.201	-	2.201
Total Adjustments	0.000	0.000	-0.052	-	-0.052
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-0.052	-	-0.052

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 092: *Aircraft Certification*

Congressional Add: *Program Increase - Big Data Analytics*

	FY 2023	FY 2024
Congressional Add Subtotals for Project: 092	2.000	-
Congressional Add Totals for all Projects	2.000	-

Change Summary Explanation

A slight funding reduction is the result of savings from maximizing efficiencies in the Airworthiness Certification Project.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605606A / Aircraft Certification				Project (Number/Name) 092 / Aircraft Certification			
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
092: Aircraft Certification	-	4.777	2.718	2.201	-	2.201	2.205	2.228	2.253	2.275	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Airworthiness Certification Project assures safe flight operation of Army aircraft and aviation systems by means of technical design approval and qualification of systems to appropriate airworthiness standards. This Project supports independent airworthiness qualification for all assigned developmental and in-production Army aircraft, both manned and unmanned, as required by Army Regulation (AR) 70-62 ("Airworthiness of Aircraft Systems"), and is essential for assuring the safe operation of Army aircraft. This Project performs engineering functions (design, analysis, testing, demonstrations, and system specification compliance) essential for certifying the airworthiness of nearly 20,000 assigned Army aircraft. This Project also supports: management/execution of the Army Military Airworthiness Certification Criteria (AMACC) program; management/execution of airworthiness approval for new systems and materiel changes for all assigned Army aircraft systems; airworthiness engineering support for major development/modification and future systems/ subsystems requirements of the Program Executive Officer for Aviation (PEO AVN) and U.S. Army Special Operations Command's Technology Applications Program Office (TAPO); and management of test and evaluation processes in support of the airworthiness qualification process. The Airworthiness Certification Project also performs general research and development in support of aircraft qualification and overarching airworthiness projects that involve multiple aircraft models, and supports the application of other critical aviation subsystems onto Army aircraft.

This Project also supports: airworthiness certification for military-use civil derivative aircraft technical qualification through the Federal Aviation Administration's Military Certification Office; development of airworthiness procedures, specifications, critical standards, and other design and qualification documents; participation in senior leadership mandated airworthiness tri-service activities (e.g., National Airworthiness Council) and international airworthiness related activities mandated by treaty (e.g. Flight Into Non-segregated Airspace (FINAS)). The Aircraft Certification line is the only legal means per fiscal law to proactively establish certification criteria for priority research areas per the Army Modernization Strategy being leveraged in Army Aviation programs of record. This includes airworthiness involvement in Technology Transition projects such as the Future Long Range Assault Aircraft, Advanced Unmanned Aircraft Systems, Modular Open System Architecture, Autonomy/Artificial Intelligence/Machine Learning, Digital Engineering, Electric and Hybrid Propulsion and additive manufacturing.

Work in this Project is performed by the United States Army Futures Command (AFC), U.S. Army Combat Capabilities Development Command (DEVCOM) Aviation & Missile Center (AvMC), Redstone Arsenal, AL.

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

	FY 2023	FY 2024	FY 2025
Title: Certification Requirements and Studies for Force Modernization Aircraft, Future Aircraft, and Advanced Aircraft Technologies	1.557	1.715	1.448
Description: Perform studies to support airworthiness certification requirements for Force Modernization and Future Aircraft Systems.			
FY 2024 Plans:			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605606A / Aircraft Certification	Project (Number/Name) 092 / Aircraft Certification		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Will refine Army Military Airworthiness Certification Criteria (AMACC) document. Will conduct technical and airworthiness qualification assessments, projects, and studies to demonstrate airworthiness and system performance for Army force modernization aircraft systems and multi-system programs (e.g. AH-64E, UH-60M, MH-47G, MH-60M, etc.). Will conduct studies of Airworthiness Certification requirements for future aircraft systems and other advanced technology transition programs (e.g. Future Attack Reconnaissance Aircraft, Future Long Range Assault Aircraft, Advanced Unmanned Aircraft Systems, Modular Open System). These efforts will aid in fully understanding advanced aviation technologies and proposed airworthiness certification criteria, standards, and methods of compliance.</p> <p>FY 2025 Plans: Will refine Army Military Airworthiness Certification Criteria (AMACC) document. Will conduct technical and airworthiness qualification assessments, projects, and studies to demonstrate airworthiness and system performance for Army force modernization aircraft systems and multi-system programs (e.g. AH-64E, UH-60M, MH-47G, MH-60M, etc.). Will conduct studies of Airworthiness Certification requirements for future aircraft systems and other advanced technology transition programs (e.g. Future Long Range Assault Aircraft, Advanced Unmanned Aircraft Systems, Modular Open System). These efforts will aid in fully understanding advanced aviation technologies and proposed airworthiness certification criteria, standards, and methods of compliance.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding change reflects planned lifecycle for this effort.</p>				
<p>Title: Design Standards</p> <p>Description: Support the development, implementation and maintenance of Army Aeronautical Design Standards, airworthiness procedures and tools, and overarching Airworthiness qualification documentation.</p> <p>FY 2024 Plans: Will develop, implement, and maintain Army Aeronautical Design Standards, airworthiness procedures and tools, and overarching airworthiness qualification documentation.</p> <p>FY 2025 Plans: Will develop, implement, and maintain Army Aeronautical Design Standards, airworthiness procedures and tools, and overarching airworthiness qualification documentation.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding change reflects planned lifecycle for this effort.</p>		0.777	0.873	0.706
<p>Title: Commercial Derivative Aircraft</p> <p>Description: Technical and airworthiness qualification for Commercial Derivative Aircraft.</p>		0.222	0.071	-

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605606A / Aircraft Certification	Project (Number/Name) 092 / Aircraft Certification

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>FY 2024 Plans: Will provide cursory technical and airworthiness qualification for Commercial Derivative Aircraft through the Federal Aviation Administration.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding decrease reflects planned completion of work.</p>			
<p>Title: Aircraft Fleet Airworthiness Certification Advancement and Synchronization</p> <p>Description: Support efforts to establish and maintain aircraft safety for a fleet of aircraft.</p> <p>FY 2024 Plans: Will provide support to maintain general situational awareness in national and international airworthiness certification committees, conferences and working groups responsible for establishing, maintaining, and synchronizing aircraft safety for fleets of aircraft (e.g. National Airworthiness Council, Joint Propulsion Coordinating Committee, North Atlantic Treaty Organization (NATO) Airworthiness working groups, Air Force Interoperability Council (AFIC) Airworthiness working groups, and Global Air Traffic Management working groups).</p> <p>FY 2025 Plans: Will provide support to maintain general situational awareness in national and international airworthiness certification committees, conferences and working groups responsible for establishing, maintaining, and synchronizing aircraft safety for fleets of aircraft (e.g. National Airworthiness Council, Joint Propulsion Coordinating Committee, North Atlantic Treaty Organization (NATO) Airworthiness working groups, Air Force Interoperability Council (AFIC) Airworthiness working groups, and Global Air Traffic Management working groups)</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding change reflects planned lifecycle for this effort.</p>	0.221	0.059	0.047
Accomplishments/Planned Programs Subtotals	2.777	2.718	2.201

	FY 2023	FY 2024
Congressional Add: Program Increase - Big Data Analytics	2.000	-
FY 2023 Accomplishments: Congressional interest item.		
Congressional Adds Subtotals	2.000	-

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

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605606A / <i>Aircraft Certification</i>	Project (Number/Name) 092 / <i>Aircraft Certification</i>

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

Remarks

D. Acquisition Strategy

N/A