Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force	Date: March 2024
Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force* / BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0604617F / *Agile Combat Support*

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	-	18.677	21.967	24.178	0.000	24.178	24.502	24.998	25.893	26.406	Continuing	Continuing
652895: *Civil Engineering Readiness*	-	18.677	21.967	22.124	0.000	22.124	22.398	22.850	23.667	24.135	Continuing	Continuing
654910: *Aeromedical Readiness*	-	0.000	0.000	2.054	0.000	2.054	2.104	2.148	2.226	2.271	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program provides lighter, leaner, rapidly-deployable and technologically-advanced material, and capabilities to the warfighter. Current projects in this program include Civil Engineering Readiness (Project 652895) and Aeromedical Readiness (Project 654910). Civil Engineering Readiness projects enable airfield protection, and airfield damage recovery for sustainment, and increased resiliency of airfield operations anywhere in the world. Aeromedical Readiness projects provide aerospace medical systems and treatment equipment to improve casualty care and meet worldwide warfighter medical operational requirements.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, and 0606398F. In FY23 0.000 was expended for civilian pay expenses in this program element, and in FY24 0.000 is forecast for civilian pay expenses in this program element.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	19.252	21.967	22.086	0.000	22.086
Current President's Budget	18.677	21.967	24.178	0.000	24.178
Total Adjustments	-0.575	0.000	2.092	0.000	2.092
• 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	-0.575	0.000	2.092	0.000	2.092

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force	Date: March 2024
Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force* / BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0604617F / *Agile Combat Support*

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2023	FY 2024
Project: 652895: *Civil Engineering Readiness*		
Congressional Add: *Carbon Materials*	0.000	-
Congressional Add: *Airfield Sustainment & Damage Recovery Technologies*	0.000	-
Congressional Add: *Modern Timber Products for Expeditionary Construction*	5.000	-
Congressional Add Subtotals for Project: 652895	5.000	-
Congressional Add Totals for all Projects	5.000	-

Change Summary Explanation

FY24 changes includes a funding realignment of -$2.001 from Airbase Technologies to Aeromedical Readiness (Project 654910), with Medical C-CBRN (Program 0208036F).

Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force											Date: March 2024	
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604617F / *Agile Combat Support*				Project (Number/Name) 652895 / *Civil Engineering Readiness*			
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**
652895: *Civil Engineering Readiness*	-	18.677	21.967	22.124	0.000	22.124	22.398	22.850	23.667	24.135	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Civil Engineering (CE) Readiness project develops Airbase Technologies (ABT), Airfield Damage Repair (ADR), Airfield Protection (AP), Energy & Utilities (E&U), and CE Materials (CEM) solutions for in-garrison, expeditionary, and contingency installations and airbases. This includes: technologies for airfield assessment, pavement repair and unexploded ordnance identification and mitigation to enable rapid recovery and regeneration of airfield operations; infrastructure design criteria, construction methods, hardened shelters, evaluation tools, materials, aviation firefighting, force protection, expeditionary energy, waste water recycling/treatment, CE materials applications and systems for improved resiliency and rapid recovery of airbase and airfield operations following an attack.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, and 0606398F. In FY23 0.000 was expended for civilian pay expenses in this program element, and in FY24 0.000 is forecast for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Airbase Technologies	4.177	7.254	7.528
Description: Technical support providing RDT&E capabilities for cross-cutting CE applications and processes for all CE functional areas. Provides replacements and repair of critical RDT&E lab equipment, test systems and instruments. Specialized RDT&E systems and software required to conduct CE RDT&E.			
FY 2024 Plans: Continue development and testing of material technologies to maximize indigenous resourcing for expeditionary civil engineering applications, processes for production of cementitious materials in theatre with increased sustainment and reduced life cycle costs, development and testing of deployable large-scale platforms, and variable material formulations for additive manufacturing of buildings and equipment for CE applications, development of functionalized materials for hardened infrastructure and force protection applications, mitigation technologies for Aqueous Film Forming Form (AFFF) and transition to next generation fire-fighting and fire suppression agents and systems, evaluation of energy, utility, and infrastructure improvements, energy storage systems and incorporation of alternative and renewable energy systems with USAF assets. Replace/repair critical RDT&E lab equipment. Fund program management support, RDT&E IT systems and software required to conduct CE RDT&E.			
FY 2025 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 5	**R-1 Program Element (Number/Name)** PE 0604617F / *Agile Combat Support*	**Project (Number/Name)** 652895 / *Civil Engineering Readiness*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Continue development and testing of material technologies for indigenous soil-based cements and minimal basing processes including bio-based cementation for expeditionary ADR, test and evaluation of low resource manufacturing technologies for reduced life cycle costs, development and testing of additive manufacturing approaches for CE applications, development of functionalized materials for hardened infrastructure and force protection applications, evaluation, treatment, and mitigation technologies foe AFFF and development and testing of next generation fire-fighting and fire suppression agents, evaluation of expeditionary energy, utility, and infrastructure improvements, energy storage systems and incorporation of renewable energy systems with USAF assets. Replace/repair critical RDT&E lab equipment. Fund program management support, RDT&E IT systems and software required to conduct CE RDT&E. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Planned increase for Civil Engineering Materials and Processes and Additive Manufacturing.			
Title: Airfield Damage Repair	5.885	8.396	8.375
Description: This effort develops, tests, and certifies equipment, materials, and Tactics, Techniques, and Procedures (TTPs) for the rapid assessment and repair of airfield damage, which includes identification, mitigation or removal of unexploded ordnance and expedient repairs for fuel and utility systems. This effort will also accelerate the transition of proven technologies and sustained protection of critical infrastructure, including operating surfaces, shelters, fuel storage and distribution systems, and command and control (C2) systems. Further, this effort focuses on the resiliency of airbase infrastructure as well as the timely repair and regeneration of airfield operations within established time limits in order to gain and maintain air superiority. ***FY 2024 Plans:*** Mature the rapid assessment, mitigation, and repair tool and material solutions for airfield damage recovery through research, development, testing, and evaluation. Rapid assessment includes spiral development and integration of small unmanned aircraft systems (SUAS), mobile towers, and handheld platforms to utilize various sensors, to provide data for automated damage detection software solutions to significantly decrease damage assessment time and improve automated detection of unexploded ordnance (UXO). Mitigation includes development, testing and evaluation of systems to remotely remove and neutralize UXO through a family of Rapid Explosive Hazard Mitigation (REHM) components. This family of systems will include manned and unmanned systems with improved blast resistance capability to fit on both new and existing systems. Repair of damage focuses on development, testing, and transition of materials and equipment sets for rapid recovery of enemy induced battle damaged runways. New materials will have minimal dependence on shipping and logistics, with new techniques and procedures to place locally sourced materials to provide equal or greater strength to current ADR equipment. New systems will be developed and tested to provide similar or greater repair speeds with smaller logistic requirement, and current equipment test and evaluation will focus heavily on testing and operation in extreme weather conditions. New procedures and equipment will be identified to fully replace/rejuvenate pavement runways using Full Depth Reclamation process. ***FY 2025 Plans:***			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 5	**R-1 Program Element (Number/Name)** PE 0604617F / *Agile Combat Support*	**Project (Number/Name)** 652895 / *Civil Engineering Readiness*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Continue to mature and transition the rapid assessment, mitigation, and repair tool and material solutions for airfield damage recovery through research, development, testing, and evaluation. Rapid assessment includes spiral development and integration of small unmanned aircraft systems (SUAS), mobile towers, and handheld platforms to utilize various sensors, to provide data for automated damage detection software solutions to significantly decrease damage assessment time and improve automated detection of unexploded ordnance (UXO). In order to meet improved sensor requirements for enhanced detection and classification of damage/debris, new platforms will be identified to meet current and future needs. Mitigation includes development, testing and evaluation of systems to remotely remove and neutralize UXO through a family of Rapid Explosive Hazard Mitigation (REHM) components. This family of systems will include manned and unmanned systems with improved blast resistance capability to fit on both new and existing heavy equipment, physical destruction of UXO through stand-off methods, and Subsurface Location, Access, and Mitigation (SLAM) of buried UXO. Repair of damage focuses on development, testing, and transition of materials and equipment sets for rapid recovery of enemy induced battle damaged runways. New materials will have minimal dependence on shipping and logistics through use of indigenous materials, with new techniques and procedures to place locally sourced materials to provide equal or greater strength to current ADR methodologies. New systems will be developed and tested to provide similar or greater repair speeds with smaller logistic requirement, and current equipment test and evaluation will focus heavily on testing and operation in extreme weather conditions, along with methods for repair that will support current Agile Combat Employment (ACE) operations and strategies. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Minor decrease to enable support for BEAR System for Load and Installation Management (BSLIM) under Basing & Protection.			
Title: Basing & Protection ***Description:*** Research, develop and transition technologies for airbase infrustructure. Incudes hardening and protecting airfield infrastructure from munitions attack, unexploded ordnance and aircraft, equipment and infrastructure fires. Within this effort are structural solutions, expeditionary and expedient hardening and protection solutions, explosive ordnance disposal technologies, aviation firefighting technologies, and energy and utilities technologies. The technologies developed from this effort provide improved resiliency and rapid restoration of airbase and airfield operations following an attack as well as energy and utilities technologies that provide increased efficiency and decreased logistic costs for expeditionary and in-garrison applications. ***FY 2024 Plans:*** Test and evaluate additively manufactured concrete structures for blast and ballistic performance and update design guidance accordingly. Modernize personnel bunker designs to reduce the likelihood of traumatic brain injuries (TBI) from emerging threats. Continue development of building wall and roof sections to reduce construction cost and increase survivability against guided munitions. Continue to design and develop Expedient Small Asset Protection (ESAP) equipment concepts and prototypes. Test and validate ESAP systems against design threat weapons and improve design as necessary. Provide technical assistance for initial fielding of ESAP systems. Improve equipment protection systems to better align with agile combat objectives. Evaluate Per- and Polyfluoroalkyl Substances (PFAS)-free foams, mitigation technologies for Aqueous film forming foam (AFFF), and	3.615	6.317	6.221

Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 5	**R-1 Program Element (Number/Name)** PE 0604617F / *Agile Combat Support*	**Project (Number/Name)** 652895 / *Civil Engineering Readiness*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
new/emergent technologies for fire protection and training. Field tested and evaluated expeditionary energy storage and shelter technologies that incorporate energy resiliency and sustainability capabilities for USAF expeditionary assets. Conduct field demonstration of innovative expeditionary water and waste processing systems in an operational environment prior to fielding. Support test and evaluation of commercial technologies/systems that includes: expeditionary shelters, environmental conditioning systems, hybrid renewable energy systems, energy storage, power generation and management system, water and waste stream processing systems. ***FY 2025 Plans:*** Upgrade/modernize existing personnel protective bunkers and Air Force infrastructure hardening standards to meet current threat(s). Continue RDT&E of new concepts for protection materials for lighter, less expensive solutions for infrastructure hardening. Test and evaluate technologies against penetrating munitions including cruise missile hardening and improve expedient sheltering to address advanced threats. Continue to provide technical assistance for initial fielding of Expedient Small Asset Protection (ESAP) systems. Perfrom testing of selective hardening systems for infrastructure. Continue testing and evaluation of unconventional countermeasures technology for transition. Continue research and development of aviation firefighting technologies for treatment and replacement of the perfluorinated aqueous film forming foams (AFFF), clean firefighting agents - Halon replacement and aviation firefighting equipment. Continue RDT&E of EOD technologies for neutralization UXO threats for transition into service. Continue bench and lab scale testing of new energy and utilities technologies prior to scaling up to full scale test and evaluation. Continue test and evaluation of expeditionary energy storage and shelter technologies that incorporate resiliency and sustainability capabilities for USAF expeditionary assets. Conduct field demonstration of innovative expeditionary water and waste disposal systems in an operational environment prior to fielding such as in Arctic environments, in order to support current Arctic strategy needs. Support test and evaluation of commercial technologies/systems that includes: expeditionary shelters, environmental conditioning systems, hybrid renewable energy systems, energy storage, power generation and management system, water and waste stream processing systems. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Minor decrease in requirement for BEAR System for Load and Installation Management (BSLIM).			
Accomplishments/Planned Programs Subtotals	13.677	21.967	22.124

	FY 2023	FY 2024
Congressional Add: Carbon Materials	0.000	-
FY 2023 Accomplishments: Continue to conduct research into Carbon Materials for Civil Engineer applications.		
Congressional Add: Airfield Sustainment & Damage Recovery Technologies	0.000	-

Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 5	**R-1 Program Element (Number/Name)** PE 0604617F / *Agile Combat Support*	**Project (Number/Name)** 652895 / *Civil Engineering Readiness*

	FY 2023	FY 2024
FY 2023 Accomplishments: Continue to conduct research into Airfield Sustainment and Damage Recovery Technologies for Civil Engineer applications. Optimize technologies that will enable asphalt to set at cooler temperatures which will reduce energy consumption at forward base operations.		
Congressional Add: Modern Timber Products for Expeditionary Construction ***FY 2023 Accomplishments:*** Continue and extend research into Modern Timber Products for Expeditionary Construction and Civil Engineer applications.	5.000	-
Congressional Adds Subtotals	5.000	-

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
• OPAF 04 Line Item 845100A: *Contingency Operations - Engineering and EOD Equipment*	68.739	173.669	167.773	-	167.773	171.299	-	-	-	Continuing	Continuing

Remarks

Procurement funding for Expedient Small Asset Protection (ESAP) systems, Rapid Airfield Damage Assessment System (RADAS) and Recovery of Airbases Denied by Ordnance (RADBO) in PE 0208028F.

D. Acquisition Strategy

This Civil Engineering (CE) Readiness project develops and evaluates technologies for in-garrison, expeditionary, and contingency installations & airbases. This encompasses a wide range of solutions and COTS equipment that are fielded to support the CE mission of the USAF. The acquisition strategy utilizes AFCEC RDT&E contracts as well as AFLCMC, GSA, other DoD and US Government laboratories/engineering centers, contracts and other transaction agreements whenever practical for the specific technology development effort.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 5	**R-1 Program Element (Number/Name)** PE 0604617F / *Agile Combat Support*	**Project (Number/Name)** 652895 / *Civil Engineering Readiness*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Airbase Technologies	Various	AFCEC : Tyndall AFB, FL	-	1.994	Oct 2022	4.405	Nov 2023	4.993	Nov 2024	-		4.993	Continuing	Continuing	-
Airfield Damage Repair (ADR) & Airfield Pavement Technologies	Various	AFCEC : Tyndall AFB, FL	-	2.210	Dec 2022	3.080	Nov 2023	2.925	Nov 2024	-		2.925	Continuing	Continuing	-
EOD & Robotics Technologies	C/CPFF	Torch Technologies : Huntsville, AL	-	2.086	Nov 2022	2.633	Nov 2023	2.675	Nov 2024	-		2.675	Continuing	Continuing	-
RADAS Integration	C/CPFF	Torch Technologies : Huntsville, AL	-	2.164	Nov 2022	2.683	Nov 2023	2.775	Nov 2024	-		2.775	Continuing	Continuing	-
Airfield Protection (AP) Infrastructure Hardening	C/CPFF	Battelle : Panama City, FL	-	2.023	Nov 2022	2.981	Nov 2023	2.825	Nov 2024	-		2.825	Continuing	Continuing	-
Aviation Firefighting Technologies	C/CPFF	Battelle : Panama City, FL	-	0.796	Oct 2022	1.292	Nov 2023	1.425	Nov 2024	-		1.425	Continuing	Continuing	-
Energy & Utilities	C/CPFF	Battelle : Panama City, FL	-	0.796	Oct 2022	1.292	Nov 2023	1.425	Nov 2024	-		1.425	Continuing	Continuing	-
BEAR System for Load and Installation Management (BSLIM)	C/CPFF	Battelle : Panama City, FL	-	-		0.752	Nov 2023	0.503	Nov 2024	-		0.503	Continuing	Continuing	-
Airfield sustainment and damage recovery technologies	Various	Kenai Defense : Homer, AK	-	-		-		-		-		-	Continuing	Continuing	-
Carbon materials	Various	Kenai Defense : Homer, AK	-	-		-		-		-		-	Continuing	Continuing	-
Modern timber products for expeditionary construction	Various	Auburn University : Auburn, AL	-	5.000		-		-		-		-	Continuing	Continuing	-
		Subtotal	-	17.069		19.118		19.546		-		19.546	Continuing	Continuing	N/A

Remarks

Airfield Pavements & Technologies was rolled into Airfield Damage Repair as these are a joint effort.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force			Date: March 2024
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604617F / *Agile Combat Support*	Project (Number/Name) 652895 / *Civil Engineering Readiness*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Administration (PMA)	Various	AFCEC : Tyndall AFB, FL	-	0.422	Apr 2023	1.259	Apr 2024	0.928	Apr 2025	-		0.928	Continuing	Continuing	-
		Subtotal	-	0.422		1.259		0.928		-		0.928	Continuing	Continuing	N/A

Remarks

PMA includes travel and supplies to support CE Readiness RDT&E activities.

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
A&AS Program Support RDT&E	C/FFP	Multiple : Tyndall AFB, FL	-	1.186	Oct 2022	1.590	Oct 2023	1.650	Oct 2024	-		1.650	Continuing	Continuing	-
		Subtotal	-	1.186		1.590		1.650		-		1.650	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	-	18.677		21.967		22.124		-		22.124	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 5	**R-1 Program Element (Number/Name)** PE 0604617F / *Agile Combat Support*	**Project (Number/Name)** 652895 / *Civil Engineering Readiness*

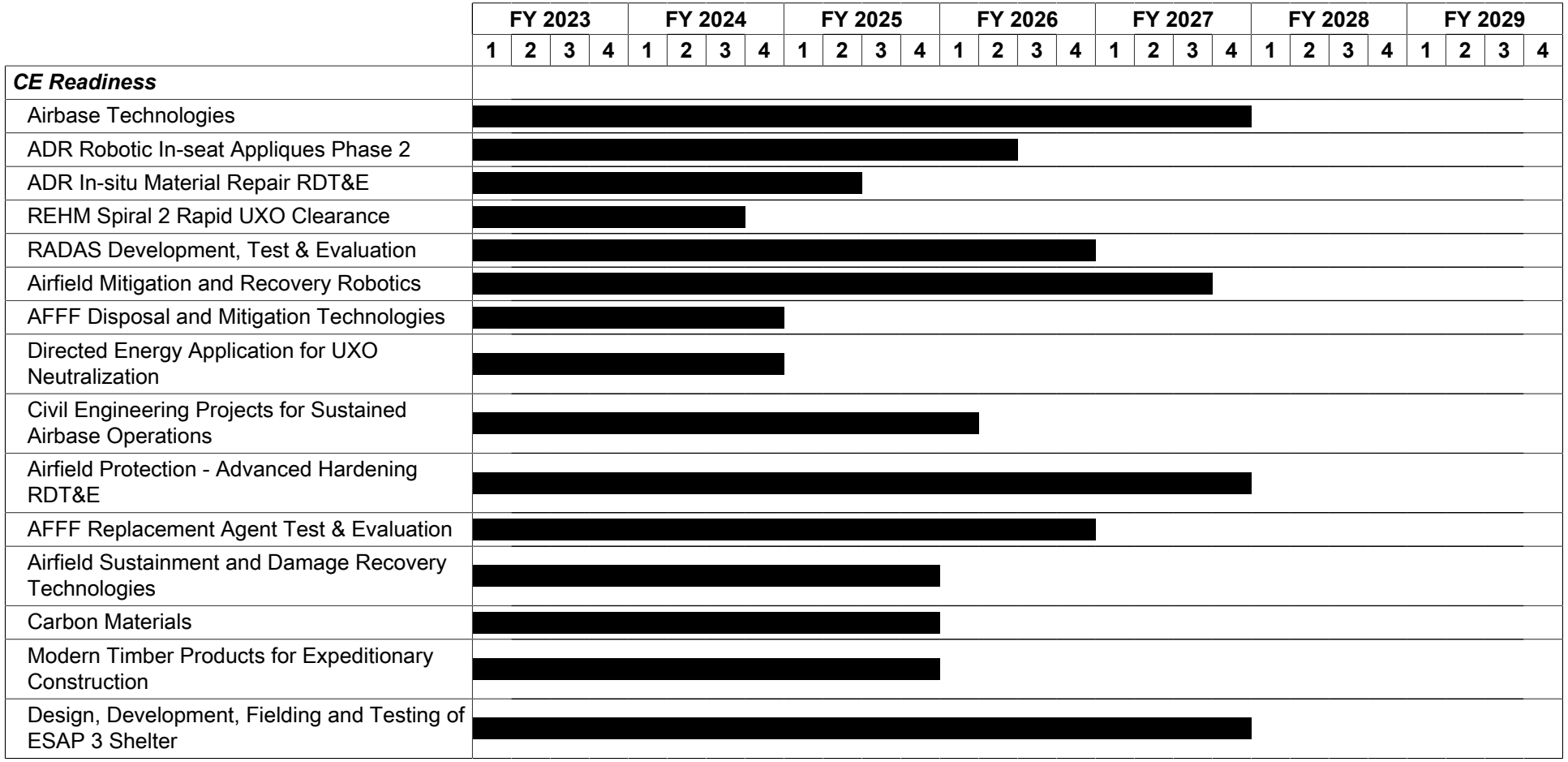

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 5	**R-1 Program Element (Number/Name)** PE 0604617F / *Agile Combat Support*	**Project (Number/Name)** 652895 / *Civil Engineering Readiness*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
CE Readiness				
Airbase Technologies	1	2023	4	2027
ADR Robotic In-seat Appliques Phase 2	1	2023	2	2026
ADR In-situ Material Repair RDT&E	1	2023	2	2025
REHM Spiral 2 Rapid UXO Clearance	1	2023	3	2024
RADAS Development, Test & Evaluation	1	2023	4	2026
Airfield Mitigation and Recovery Robotics	1	2023	3	2027
AFFF Disposal and Mitigation Technologies	1	2023	4	2024
Directed Energy Application for UXO Neutralization	1	2023	4	2024
Civil Engineering Projects for Sustained Airbase Operations	1	2023	1	2026
Airfield Protection - Advanced Hardening RDT&E	1	2023	4	2027
AFFF Replacement Agent Test & Evaluation	1	2023	4	2026
Airfield Sustainment and Damage Recovery Technologies	1	2023	4	2025
Carbon Materials	1	2023	4	2025
Modern Timber Products for Expeditionary Construction	1	2023	4	2025
Design, Development, Fielding and Testing of ESAP 3 Shelter	1	2023	4	2027

Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force			Date: March 2024
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604617F / *Agile Combat Support*	Project (Number/Name) 654910 / *Aeromedical Readiness*	

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
654910: *Aeromedical Readiness*	-	0.000	0.000	2.054	0.000	2.054	2.104	2.148	2.226	2.271	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Aeromedical Readiness provides key aeromedical devices, life-saving capabilities and quality of life technologies and equipment. This program enables the critical care of combat casualties by further developing and optimizing existing technologies for ground Expeditionary Medical Systems (EMEDS) and aeromedical evacuation systems. EMEDS and aeromedical evacuation systems provide the urgent care needed to treat deployed injured warfighters and return them to duty while in country, and to treat combat casualties that need to be safely transported to a stateside hospital for follow on treatment. The program also supports critical capabilities development in the multi-disciplinary areas for light-weight, durable, and rapidly deployable medical equipment to ensure the Air Force is poised to meet future medical readiness and operational requirements, to include but not limited to Spinal Immobilization Transport Device (SIT-D), Pathogen Detection Capability, Automated Vision Testing, Whole Blood Transport and other FDA approved medical treatment devices. This program supports projects ranging from research efforts to optimize human physiologic and cognitive performance for Air Combat Command, to development of patient isolation and transportation devices for Air Mobility Command that enable aeromedical evacuation of patients suffering with highly infectious diseases.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, and 0606398F. In FY23 0.000 was expended for civilian pay expenses in this program element, and in FY24 0.000 is forecast for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Aeromedical Equipment Testing/Studies/Minor Development	0.000	0.000	2.054
Description: Aeromedical supports Defense Health Program, Joint Services and MAJCOM medical modernization. The Air Force Medical Readiness Agency (AFMRA) Surgeon General Requirement Oversight Council (SGROC) Governance process manages medical capability gaps, research and development, funding prioritization and decisional boards. Aeromedical procures and qualifies commercial-off-the-shelf (COTS) or near COTS medical and aeromedical products and/or performs minor development, studies and management efforts, under Aeromedical Readiness. Also to preform anthropometric studies. Aeromedical Program efforts evaluate integrating technologies or prototype systems in a realistic operating environment, expedite technology transition from the laboratory to operational use, emphasis on proving maturity prior to integration and viable decision ready materiel solutions.			
FY 2024 Plans: No FY24 activity			
FY 2025 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 5	**R-1 Program Element (Number/Name)** PE 0604617F / *Agile Combat Support*	**Project (Number/Name)** 654910 / *Aeromedical Readiness*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Funding supports aeromedical modernization efforts, evaluating identified commercial-off-the-shelf (COTS) or near COTS medical and aeromedical products for Air Force use, identifying integration challenges and solutions, and proving technical maturity. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding increased due to FY 23 funding being zero'd out and then receiving FY24 funds in PEC 0208036F with a standard escalation for inflation.			
Accomplishments/Planned Programs Subtotals	0.000	0.000	2.054

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

Multi-Modal Threat Detection and Mitigation Congressional Add improperly aligned to BPAC 654910. Funding is being executed out of BPAC 652895.

D. Acquisition Strategy

Whenever practical, commercial items are tested and evaluated as candidates for providing solutions to user needs. This normally involves contractor characterization, verification, and qualification testing to ensure Food and Drug Administration (FDA) approved, commercial off-the-shelf equipment is properly evaluated to identify any capability gaps that may require minor modifications for military use. However, acquisition strategies may also be carried out for traditional Engineering and Manufacturing Development (EMD). Funds may be used to address associated emerging Aeromedical Readiness requirements and for program management activities.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force			Date: March 2024
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604617F / *Agile Combat Support*	Project (Number/Name) 654910 / *Aeromedical Readiness*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Aeromedical Equipment R&D (Production Representative Units, Testing, Manufacturing Maturation, Food and Drug Administration Clearance)	C/FFP	AFLCMC : Wright-Patterson AFB, OH	-	-		-		2.054	Mar 2025	-		2.054	0.000	2.054	-
		Subtotal	-	-		-		2.054		-		2.054	0.000	2.054	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	-	-		-		2.054		-		2.054	0.000	2.054	N/A

Remarks

Multi-Modal Threat Detection and Mitigation Congressional Add improperly aligned to BPAC 654910. Funding is being executed out of BPAC 652895.

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 5	**R-1 Program Element (Number/Name)** PE 0604617F / *Agile Combat Support*	**Project (Number/Name)** 654910 / *Aeromedical Readiness*

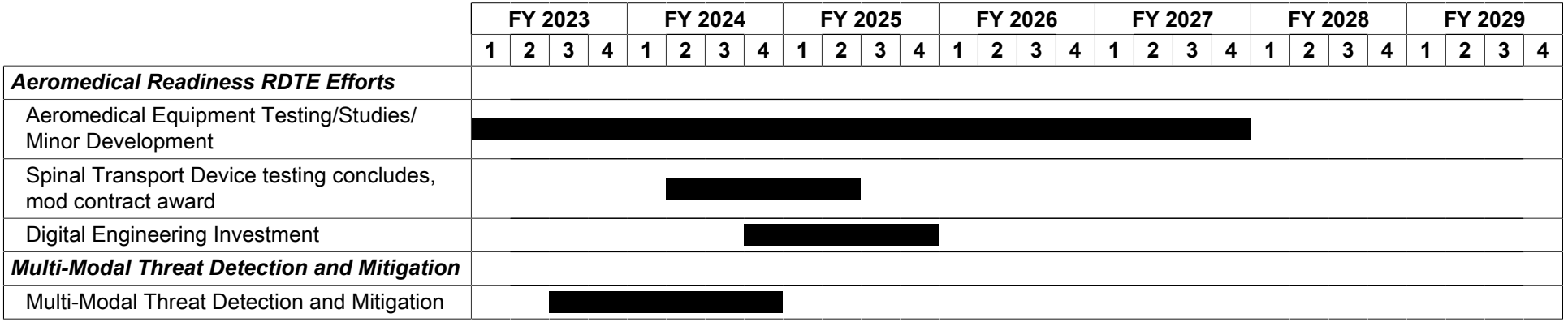

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 5	**R-1 Program Element (Number/Name)** PE 0604617F / *Agile Combat Support*	**Project (Number/Name)** 654910 / *Aeromedical Readiness*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Aeromedical Readiness RDTE Efforts				
Aeromedical Equipment Testing/Studies/Minor Development	1	2023	4	2027
Spinal Transport Device testing concludes, mod contract award	2	2024	2	2025
Digital Engineering Investment	4	2024	4	2025
Multi-Modal Threat Detection and Mitigation				
Multi-Modal Threat Detection and Mitigation	3	2023	4	2024

Note

Multi-Modal Threat Detection and Mitigation Congressional Add improperly aligned to BPAC 654910. Funding is being executed out of BPAC 652895.