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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Army **Date:** March 2023

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	-	76.349	134.719	53.143	-	53.143	41.961	60.420	30.543	30.883	Continuing	Continuing
EX8: <i>Future Unmanned Aircraft System (FUAS)</i>	-	76.349	134.719	53.143	-	53.143	41.961	60.420	30.543	30.883	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Future Unmanned Aircraft System (FUAS) is a critical system in the cross-domain capabilities concept that will employ MDO capabilities at all echelons and allow ground based forces to project power from land into other domains to defeat highly capable enemies, secure terrain, and consolidate gains. FUAS encompasses an array of capabilities from platoon soldiers to Division Commanders. The Army Requirements Oversight Council (AROC) approved the FUAS Initial Capabilities Document (ICD) on 6 Mar 2019. The FUAS ICD includes requirements for Future Tactical UAS (FTUAS), Air Launched Effects (ALE), and Scalable Control Interface (SCI). Current FTUAS efforts are based on requirements from AROC approved Abbreviated Capability Development Document (A-CDD) signed 12 August 2021. Manned, optionally-manned, and unmanned systems will penetrate defense-in-depth environments by employing ALE with teaming and swarming effects to detect, decoy, jam radar and communications, conduct cyber-attack, spoof and jam Global Positioning System (GPS), and kinetic engagement.

The Future Vertical Lift Cross Functional Team (FVL CFT) FUAS line of effort is comprised of multiple components including the FTUAS for the Brigade Combat Team (BCT), and ALE. The FTUAS seeks to replace the RQ-7Bv2 Shadow assets within the BCTs. Key attributes of the FTUAS BCT focus on Rapid Deployability, Expeditionary Maneuver, and Mobility for adaptive and agile operations. FTUAS will consist of an aircraft subsystem that will include the airframe, propulsion, avionics, communications, navigation, and software systems; aircraft-specific ground support equipment including power generation, transportation, or command and control equipment; aircraft software; and required engineering, logistics, programmatic support.

ALE extends tactical and operational reach, lethality, and protection to the advanced team as an attritable or optionally recoverable aerial capability that detects, identifies, locates, and reports threats; represents a credible decoy; disrupts threat communication, targeting and acquisition systems; and delivers lethal and non-lethal effects against those threats across cross-domain capabilities. Current ALE efforts are based on requirements from AROC approved A-CDD signed 28 May 2020.

Justification: Fiscal Year (FY) 2024 FUAS Research Development Technology & Evaluation (RDT&E) Base funding of \$53.143 million will be utilized for the following:

- 1) \$19.439 million to support ALE Systems Integration activities to include test and evaluation activities to support a rapid fielding decision
- 2) \$5.528 million provides SEPM to support ALE
- 3) \$10.808 million to support FTUAS component development and competitive prototyping and integration efforts,
- 4) \$14.550 million provides Test and Evaluation to support FTUAS
- 5) \$2.818 million provides SEPM to support FTUAS

The total cost of the ALE Middle Tier of Acquisition effort is \$75 million RDT&E from FY22 to FY24. The ALE is fully funded across the Future Years Defense Program. FTUAS Inc 2:

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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>
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The total cost of the FTUAS Inc 2 Middle Tier of Acquisition effort is \$125 million RDT&E from FY22 to FY25. The FTUAS Inc 2 is fully funded across the Future Years Defense Program.

B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	76.349	95.719	40.344	-	40.344
Current President's Budget	76.349	134.719	53.143	-	53.143
Total Adjustments	0.000	39.000	12.799	-	12.799
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	39.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	12.799	-	12.799

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

Project: EX8: *Future Unmanned Aircraft System (FUAS)*

Congressional Add: *Program Increase- Micro-IFF for FTUAS*

Congressional Add: *Program Increase- Future Unmanned Aircraft Systems*

Congressional Add: *Program Increase: Acceleration of Future Tactical Unmanned Aircraft System (FTUAS) Increment 1*

Congressional Add: *Program Increase: Protected Bandwidth Efficient Common DataLink (BE-CDL) Mode 303*

Congressional Add: *Program Increase: Micro-Integrated Transponder With Embedded Crypto*

Congressional Add Subtotals for Project: EX8

Congressional Add Totals for all Projects

	FY 2022	FY 2023
	5.000	-
	15.000	-
	-	16.000
	-	15.000
	-	8.000
Congressional Add Subtotals for Project: EX8	20.000	39.000
Congressional Add Totals for all Projects	20.000	39.000

Change Summary Explanation

FY24 funding in the amount of \$12.799 million moved from ACFT/A00510/A00511 Air Launched Effects to PE 0604113A/ Future Tactical Unmanned Aircraft Systems (FTUAS) Project EX8/ Future Unmanned Aircraft Systems (FUAS) RDTE line to be used on the Air Launched Effects effort.

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Army										Date: March 2023		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>				Project (Number/Name) EX8 / <i>Future Unmanned Aircraft System (FUAS)</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
EX8: <i>Future Unmanned Aircraft System (FUAS)</i>	-	76.349	134.719	53.143	-	53.143	41.961	60.420	30.543	30.883	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Future Unmanned Aircraft System (FUAS) is a critical system in the cross-domain capabilities concept that will employ MDO capabilities at all echelons and allow ground based forces to project power from land into other domains to defeat highly capable enemies, secure terrain, and consolidate gains. FUAS encompasses an array of capabilities from platoon soldiers to Division Commanders. The Army Requirements Oversight Council (AROC) approved the FUAS Initial Capabilities Document (ICD) on 6 Mar 2019. The FUAS ICD includes requirements for Future Tactical UAS (FTUAS), Air Launched Effects (ALE), and Scalable Control Interface (SCI). Current FTUAS efforts are based on requirements from AROC approved Abbreviated Capability Development Document (A-CDD) signed 12 August 2021. Manned, optionally-manned, and unmanned systems will penetrate defense-in-depth environments by employing ALE with teaming and swarming effects to detect, decoy, jam radar and communications, conduct cyber-attack, spoof and jam Global Positioning System (GPS), and kinetic engagement.

The Future Vertical Lift Cross Functional Team (FVL CFT) FUAS line of effort is comprised of multiple components including the FTUAS for the Brigade Combat Team (BCT), and ALE. The FTUAS seeks to replace the RQ-7Bv2 Shadow assets within the BCTs. Key attributes of the FTUAS BCT focus on Rapid Deployability, Expeditionary Maneuver, and Mobility for adaptive and agile operations. FTUAS will consist of an aircraft subsystem that will include the airframe, propulsion, avionics, communications, navigation, and software systems; aircraft-specific ground support equipment including power generation, transportation, or command and control equipment; aircraft software; and required engineering, logistics, programmatic support.

ALE extends tactical and operational reach, lethality, and protection to the advanced team as an attritable or optionally recoverable aerial capability that detects, identifies, locates, and reports threats; represents a credible decoy; disrupts threat communication, targeting and acquisition systems; and delivers lethal and non-lethal effects against those threats across cross-domain capabilities. Current ALE efforts are based on requirements from AROC approved A-CDD signed 28 May 2020.

Justification: Fiscal Year (FY) 2024 FUAS Research Development Technology & Evaluation (RDT&E) Base funding of \$53.143 million will be utilized for the following:

- 1) \$19.439 million to support ALE Systems Integration activities to include test and evaluation activities to support a rapid fielding decision
- 2) \$5.528 million provides SEPM to support ALE
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The total cost of the ALE Middle Tier of Acquisition effort is \$75 million RDT&E from FY22 to FY24. The ALE is fully funded across the Future Years Defense Program. FTUAS Inc 2:

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: March 2023		
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>	Project (Number/Name) EX8 / <i>Future Unmanned Aircraft System (FUAS)</i>		
The total cost of the FTUAS Inc 2 Middle Tier of Acquisition effort is \$125 million RDT&E from FY22 to FY25. The FTUAS Inc 2 is fully funded across the Future Years Defense Program.				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
<p>Title: Air Launched Effects (ALE) Systems Integration</p> <p>Description: ALE Systems Integration in preparation for a Materiel Development Decision (MDD), and to inform requirements. The PM conducts System Integration of the Prototype ALE and integration of the system onto a host launch platform.</p> <p>FY 2023 Plans: Fund the ALE Small Prototype (Increment 1A) integration of proposed material solution approaches and integration of prototype ALE onto a launch platform and include required testing in support of platform integration. Continue to support the development of the Modular Open Systems Architecture and Scalable Control Interface (SCI) required for ALE.</p> <p>FY 2024 Plans: Continue to fund the ALE Small Prototype (Increment 1A) integration of proposed material solution approaches integration of prototype ALE onto a launch platform(s), fund required testing in support of platform integration, and fund additional activities in support of ALE requirements refinement and revision. Fund capstone User Evaluation to evaluate the ALE-Prototype.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: ALE FY2024 RDTE funding decreases due to incorporating additional technologies for the ALE-S Prototype.</p>		19.225	24.860	19.439
<p>Title: Air Launched Effects (ALE) Systems Engineering/Program Management</p> <p>Description: SEPM</p> <p>FY 2023 Plans: Funds Systems Engineering/Program Management efforts in support of Air Launched Effects</p> <p>FY 2024 Plans: Funding for SEPM aligns with current ALE strategy</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Decrease in Systems Engineering/Program Management funding required as FTUAS transitions to procurement phase.</p>		0.775	5.617	5.528
<p>Title: Future Tactical Unmanned Aircraft System (FTUAS) System Engineering/Program Management</p> <p>Description: SEPM</p> <p>FY 2023 Plans:</p>		1.500	4.283	2.818

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Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>	Project (Number/Name) EX8 / <i>Future Unmanned Aircraft System (FUAS)</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
Funding to continue SEPM to support FTUAS milestone decision requirements and program execution. FY 2024 Plans: Align to FTUAS acquisition strategy. FY 2023 to FY 2024 Increase/Decrease Statement: FY23 SEPM was required to provide systems engineering support during the Development phase of the program. This shifts to Procurement of FTUAS systems beginning in FY24, so funding requirements for RDTE SEPM will subsequently decrease.				
Title: Future Tactical Unmanned Aircraft System (FTUAS) System Integration Description: The FTUAS will be a runway independent Group 3 unmanned aircraft that provides the Brigade Combat Teams with expeditionary, intelligence, surveillance, and reconnaissance (ISR) with improved target location and designation. FY 2023 Plans: Continue to fund competitive prototypes, development / integration, and test of required FTUAS components (Artificial Intelligence, Miniaturized Mode 5/S IFF, Scalable Control Interface (SCI), Communications Relay Payloads) and systems. FY 2024 Plans: Continue to fund competitive prototypes, development / integration, and test of required FTUAS systems. FY 2023 to FY 2024 Increase/Decrease Statement: FTUAS plan to transition into procurement phase.		34.849	60.959	10.808
Title: Future Tactical Unmanned Aircraft System (FTUAS) Test and Evaluation FY 2024 Plans: FTUAS will conduct developmental and qualification testing for the Increment 2 system. FY 2023 to FY 2024 Increase/Decrease Statement: New line added to support FTUAS testing efforts and FTUAS prototypes.		-	-	14.550
Accomplishments/Planned Programs Subtotals		56.349	95.719	53.143
		FY 2022	FY 2023	
Congressional Add: Program Increase- Micro-IFF for FTUAS FY 2022 Accomplishments: Awarded multiple Micro Identify Friend/Foe (Micro-IFF) contracts to add capabilities to the existing model ZPX-C capability.		5.000	-	
Congressional Add: Program Increase- Future Unmanned Aircraft Systems		15.000	-	

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Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>	Project (Number/Name) EX8 / <i>Future Unmanned Aircraft System (FUAS)</i>

	FY 2022	FY 2023
FY 2022 Accomplishments: Awarded Future Tactical Unmanned Aircraft System (FTUAS) Increment 1 Other Transaction Agreement (OTA) Awarded Future Tactical Unmanned Aircraft System (FTUAS) Inc 0		
Congressional Add: Program Increase: Acceleration of Future Tactical Unmanned Aircraft System (FTUAS) Increment 1	-	16.000
FY 2023 Plans: Award Scope to Accelerate Future Tactical Unmanned Aircraft System (FTUAS) Increment 1.		
Congressional Add: Program Increase: Protected Bandwidth Efficient Common DataLink (BE-CDL) Mode 303	-	15.000
FY 2023 Plans: Award Protected Bandwidth Efficient Common DataLink (BE-CDL) Mode 303 Scope.		
Congressional Add: Program Increase: Micro-Integrated Transponder With Embedded Crypto	-	8.000
FY 2023 Plans: Award Micro-Integrated Transponder With Embedded Crypto Scope.		
Congressional Adds Subtotals	20.000	39.000

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

Line Item	FY 2022	FY 2023	FY 2024	FY 2024	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Cost To	
			Base	OCO	Total					Complete	Total Cost
• A01311: <i>Future Tactical Unmanned Aircraft System (TUAS)</i>	-	-	53.453	-	53.453	113.701	147.399	147.533	124.422	0.000	586.508
• A00511: <i>Air Launched Effects</i>	-	-	0.000	-	0.000	39.693	101.021	101.056	100.850	Continuing	Continuing

Remarks

D. Acquisition Strategy

The Aviation Platform - Requirements Development Division (AP-RDD) prepared an Initial Capabilities Document (ICD) that was approved by the AROC on 6 Mar 2019.

The Future Vertical Lift Cross Functional Team (FVL CFT) oversaw a demonstration effort in FY 2019 - 2021 that informed the Future Tactical Unmanned Aircraft System (FTUAS) requirement to develop capability that will ultimately replace the RQ-7Bv2 Shadow TUAS within the Brigade Combat Team (BCT) formation. The 12-month demonstration included 20 Soldier touchpoints (new equipment training, field training exercises, and Combat Training Center rotations) across five BCTs and included the training of 61 operators and 56 maintainers. The demonstration resulted in over 1,500 flight hours across more than 500 separate flights to inform the FTUAS Abbreviated Capability Development Document (A-CDD) for Increment 2 approved 12 August 2021. The directed requirement for Increment 1 was approved 7 January 2022. AAE approved Increment 1 as an urgent capability acquisition on 26 May 2022. Increment 2 received Middle Tier Acquisition authority in 4QFY2022 to conduct Rapid Prototyping. Increment 2 will request follow-on acquisition pathway decision authority in FY2024.

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AP-RDD - Prepared ALE Initial Capability Refinement Document (ICRD) that was approved by GEN John M. Murray, CG, AFC on 21 Oct 2019.

The plan to acquire ALE is through an incremental approach that allows rapid prototyping and fielding of technology to field available capabilities while continuing S&T efforts to mature and transition emerging technologies to fully realize required capabilities. This is accomplished through multiple prototype development activities for the air vehicle, payloads, and mission system architecture through, experiments, simulations, and demonstrations conducted in parallel and/or sequential timelines. The objective of this incremental effort is to develop and exhibit multiple ALE prototypes to enable a rapid transition from prototype to operational implementation in the force.

The ALE Prototyping effort is a Commercial Off the Shelf (COTS)/Government Off the Shelf (GOTS) system to enable technology maturation, systems integration, and potential initial capabilities. The ALE program of record will be purpose built utilizing parallel efforts informed by S&T investments and information learned from the demonstration and testing of the ALE Prototyping effort. Additional increments will leverage the mission system architecture, payload technologies and interfaces from the initial increment and seek to extend the range of ALE for missions in support of LRPF.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army												Date: March 2023			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 4				PE 0604113A / Future Tactical Unmanned Aircraft System (FTUAS)				EX8 / Future Unmanned Aircraft System (FUAS)							
Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering and Program Management (SEPM)	Various	PM TUAS : Redstone Arsenal	7.584	1.500		4.283	Mar 2023	2.000	Feb 2024	-		2.000	Continuing	Continuing	-
Subtotal			7.584	1.500		4.283		2.000		-		2.000	Continuing	Continuing	N/A
Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Air Launched Effects (ALE) Systems Integration	Various	PM TUAS : Redstone Arsenal	42.100	20.000	Mar 2023	30.477	Nov 2022	24.967	Mar 2024	-		24.967	Continuing	Continuing	-
Future Tactical Unmanned Aircraft System (FTUAS)	Various	PM TUAS : Redstone Arsenal	33.758	54.849		99.959	Jun 2023	11.626	Feb 2024	-		11.626	Continuing	Continuing	-
Subtotal			75.858	74.849		130.436		36.593		-		36.593	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	TBD	AMTC, ATEC, RTC, and ACC : Redstone	-	-		-		14.550	Dec 2023	-		14.550	Continuing	Continuing	-
Subtotal			-	-		-		14.550		-		14.550	Continuing	Continuing	N/A
Project Cost Totals			83.442	76.349		134.719		53.143		-		53.143	Continuing	Continuing	N/A
Remarks															



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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604113A / <i>Future Tactical Unmanned Aircraft System (FTUAS)</i>	Project (Number/Name) EX8 / <i>Future Unmanned Aircraft System (FUAS)</i>

Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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
FTUAS System Engineering/Program Management (SEPM)	[Blue bar spanning FY 2022 to FY 2025]																											
FTUAS Middle Tier Acquisition (MTA) Decision FTUAS	[Blue bar spanning FY 2022 to FY 2025]																											
FTUAS Competitive Prototyping	[Blue bar spanning FY 2023 to FY 2024]																											
FTUAS Test & Evaluation	[Blue bar spanning FY 2024 to FY 2025]																											
FTUAS Production Validation	[Blue bar spanning FY 2024 to FY 2025]																											
FTUAS Operational Evaluation	[Blue bar spanning FY 2025 to FY 2026]																											
FTUAS Acquisition Pathway Decision	[Blue bar spanning FY 2025 to FY 2026]																											
FTUAS Production	[Blue bar spanning FY 2025 to FY 2028]																											
ALE Technical Assessment	[Blue bar spanning FY 2022 to FY 2023]																											
ALE OTA 2 Award	[Blue bar spanning FY 2022 to FY 2023]																											
ALE System Integration	[Blue bar spanning FY 2022 to FY 2024]																											
ALE Small Rapid Fielding MTA Decision Point	[Blue bar spanning FY 2024 to FY 2025]																											
ALE CDD	[Blue bar spanning FY 2024 to FY 2025]																											

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Army			Date: March 2023
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Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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
ALE Milestone B													 ALE MS B															
ALE Engineering and Manufacturing Development													 ALE Eng and Mfr Dev															

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Army		Date: March 2023
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
FTUAS Multi Domain Task Force Demonstration (MDTF)	1	2019	4	2020
FTUAS System Engineering/Program Management (SEPM)	1	2019	4	2025
FTUAS Demonstration (APA Funded)	3	2020	2	2021
FTUAS A- CDD AROC	4	2021	4	2021
FTUAS Middle Tier Acquisition (MTA) Decision FTUAS	4	2022	4	2022
FTUAS Competitive Prototyping	1	2023	4	2024
FTUAS Test & Evaluation	1	2024	1	2025
FTUAS Production Validation	2	2024	4	2024
FTUAS Operational Evaluation	2	2025	2	2025
FTUAS Acquisition Pathway Decision	4	2024	4	2024
FTUAS Production	4	2024	4	2031
ALE RFI	2	2019	2	2019
ALE A-CDD AROC	3	2020	3	2020
ALE OTA 1	4	2020	4	2020
ALE Technical Assessment	4	2020	4	2022
ALE Multi-Vendor Demonstrations	4	2020	4	2021
ALE RFI 2	2	2021	2	2021
ALE OTA 2 Award	2	2022	2	2022
ALE System Integration	2	2022	2	2024
ALE Small Rapid Fielding MTA Decision Point	1	2025	1	2025
ALE CDD	4	2024	4	2024
ALE Milestone B	3	2025	3	2025

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Army			Date: March 2023	
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Events	Start		End	
	Quarter	Year	Quarter	Year
ALE Engineering and Manufacturing Development	4	2025	3	2030