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

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0207040F / <i>Multi-Platform Electronic Warfare Equipment</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	-	44.264	7.312	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	51.576
670400: <i>SPECTRUM WARFARE ATTACK CAPABILITY</i>	-	44.264	7.312	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	51.576
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

Note

In FY 2025, AKCS projected for completion.

A. Mission Description and Budget Item Justification

The Angry Kitten Combat System (AKCS) program will further develop electronic attack capabilities supporting USAF fighter and attack platforms. The current 4th generation electronic warfare (EW) pods have diminishing manufacturing sources and require advanced capabilities. The AKCS program will develop prototype EW systems for 4th/5th generation aircraft that improve threat detection techniques, incorporate open system architecture, and advance rapid reprogramming capabilities. Funds are required to leverage existing EW pod components and develop a relevant EW system supporting fighter and attack platforms.

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, 0606398F. In FY23 0.0M was expended for civilian pay expenses in this program element, and in FY24 0.0M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

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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	45.895	7.312	0.000	0.000	0.000
Current President's Budget	44.264	7.312	0.000	0.000	0.000
Total Adjustments	-1.631	0.000	0.000	0.000	0.000
• 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	-1.631	0.000	0.000	0.000	0.000

Change Summary Explanation

No significant changes.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Title: Spectrum Warfare Attack Capability	44.264	7.312	0.000
Description: Spectrum Warfare Attack Capability will rapidly develop a prototype electronic warfare system for 4th/5th generation aircraft with open system architecture capability of addressing 21st century threats.			
FY 2024 Plans: Continue to prototype and demonstrate EW technologies to close capability gaps in Electromagnetic Spectrum (EMS) warfighting capabilities			
FY 2025 Plans: N/A			
FY 2024 to FY 2025 Increase/Decrease Statement: Funds decreased due to program completion.			
Accomplishments/Planned Programs Subtotals	44.264	7.312	0.000

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

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• APAF 07 000075: <i>Other Production Charges</i>	0.000	0.000	-	-	-	-	-	-	-	0.000	0.000

Remarks

E. Acquisition Strategy

Angry Kitten Combat System (AKCS) is a Middle Tier of Acquisition (MTA) program using Section 804 authority in accordance with AFGM2019-63-01, Air Force Guidance Memorandum for Rapid Acquisition Activities, 27 Jun 2019. Strategic goals are to rapidly develop and test advanced prototype electronic warfare systems with open system architecture, rapidly re-programmable capability, modular design, software-defined functionality, and cognitive technology. The acquisition strategy will include support from the following: University Academic Research Center (UARC), Other Transaction Authorities (OTA), and Industry Consortiums. The total cost of the AKCS Middle Tier of Acquisition effort is \$51.576 million. Project AKCS is scheduled for completion in FY2025.

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

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207040F / <i>Multi-Platform Electronic Warfare Equipment</i>	Project (Number/Name) 670400 / <i>SPECTRUM WARFARE ATTACK CAPABILITY</i>
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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			
OA Software	SS/CPFF	GTRI : Atlanta, GA	-	16.069	Aug 2023	-		-		-		-	0.000	16.069	-
AI/ML Cognitive EA	SS/CPFF	AFRL/DTIC : Dayton, OH	-	11.945	Aug 2023	2.362	Dec 2023	-		-		-	0.000	14.307	-
EW Testbed	SS/CPFF	AFRL : Dayton, OH	-	10.000	Aug 2023	-		-		-		-	0.000	10.000	-
Subtotal			-	38.014		2.362		-		-		-	0.000	40.376	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			
AC&SI Support	SS/CPFF	HII : Dayton, OH	-	2.300	Jun 2023	1.500	Jun 2024	-		-		-	0.000	3.800	-
Subtotal			-	2.300		1.500		-		-		-	0.000	3.800	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			
System Testing	SS/CPFF	GTRI : Atlanta, GA	-	2.000	Jun 2023	1.500	Dec 2023	-		-		-	0.000	3.500	-
Subtotal			-	2.000		1.500		-		-		-	0.000	3.500	N/A

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			
A&AS Support/Travel	SS/CPFF	PE Systems : Fairfax, VA	-	1.950	Jun 2023	1.950	Feb 2024	-		-		-	0.000	3.900	-
Subtotal			-	1.950		1.950		-		-		-	0.000	3.900	N/A

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
AKCS Increment 2				
Development	1	2023	1	2023
Test/Experiments	1	2023	1	2024
AKCS Increment 3				
Development	4	2023	1	2025
Test/Experiments	1	2025	2	2025