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

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0207247F / AF TENCAP
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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	-	28.809	25.749	50.263	0.000	50.263	52.666	45.959	51.078	51.590	Continuing	Continuing
670001: <i>Air Force TENCAP</i>	-	28.809	25.749	50.263	0.000	50.263	52.666	45.959	51.078	51.590	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

Air Force Tactical Exploitation of National Capabilities (TENCAP) increases warfighter effectiveness through the exploitation of national capabilities and promotes cross-domain integration of these capabilities into military operations/training and intelligence, surveillance and reconnaissance (ISR) activities.

AF TENCAP exploits existing National, global, and Non-Traditional ISR in air, space, and cyber domains for operational and tactical applications by rapidly prototyping and providing capability demonstrations. The program consists of multiple small projects supporting the Air Force warfighter. Projects are designed to transition to warfighters or national intelligence agencies for operational use and to appropriate acquisition Programs of Record for sustainment and further development. AF TENCAP projects influence the design and operation of current and future National, global, and Non-Traditional systems in air, space, and cyber while providing situational awareness to warfighters and intelligence organizations.

AF TENCAP requirements and existing resources may be rapidly re-prioritized in response to emerging warfighter needs.

This program element received \$3.00M Ukraine Supplemental Funds in FY2023.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY23 \$0.00M was expended for civilian pay expenses in this program element, and in FY24 \$00.00M 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>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Previous President's Budget	25.559	25.749	23.968	0.000	23.968
Current President's Budget	28.809	25.749	50.263	0.000	50.263
Total Adjustments	3.250	0.000	26.295	0.000	26.295
• 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	3.250	0.000	26.295	0.000	26.295

**Change Summary Explanation**

FY23: \$2.5M Below Threshold Reprogrammings (BTR) into Exploitation Applications. \$750K due to FY24 PB database error that did not reflect full Ukraine Supplemental increase.

FY25: \$26.2M is requested to fund an initiative to provide capabilities in support of the Department of the Air Force (DAF) Operational Imperative to provide moving target engagement at scale through the identification, tracking, and engagement of numerous moving or mobile targets in a highly contested, time-compressed, multi-domain environment.

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
<b>Title:</b> Exploitation Applications	27.949	24.499	24.069	0.000	24.069
<b>Description:</b> Exploiting existing National, global, and Non-Traditional ISR in air, space, and cyber for operational and tactical applications by rapidly prototyping and demonstrating capabilities. National capabilities are exploited to deliver rapid, cost-effective and innovative warfighting solutions. Project activities support Intelligence Surveillance and Reconnaissance requirements and the application of combat effects; Battlespace Awareness and Command and Control; support to Space; and support to Special Operations Forces and Advanced Capabilities. Activities also influence the design and operation of future National, global, and non-Traditional ISR systems in air, space, and cyber for tactical users.					
<b>FY 2024 Plans:</b>					
- Continues to rapidly prototype projects and focus warfighter support and resource allocation based on AFTENCAP mission/investment areas					

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
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- Continues focused efforts to increase Air Domain Awareness and Command and Control; support to Special Operations Forces and Advanced Capabilities; support to Space; and support to ISR and Combat Applications to meet Air Force and Joint Warfighter requirements

**FY 2025 Base Plans:**

- Will continue to rapidly prototype projects and focus warfighter support and resource allocation based on AF TENCAP mission/investment areas
- Will continue to rapidly prototype projects and focus warfighter support and resource allocation based on AF TENCAP's focused efforts to increase Air Domain Awareness and Command and Control, support to Special Operations Forces and Advanced Capabilities, support to Space, and support to ISR and Combat Applications to meet Air Force and Joint Warfighter requirements

**FY 2025 OCO Plans:**

None.

**FY 2024 to FY 2025 Increase/Decrease Statement:**

Funding decreased due to reprioritization of program requirements to meet emerging warfighter needs.

**Title:** Moving Target Engagement

**Description:** A portfolio to provide capabilities in support of the DAF Operational Imperative to provide moving target engagement (MTE) at scale through the identification, tracking, and engagement of numerous moving or mobile targets in a highly contested, time-compressed, multi-domain environment. Initiative development will provide rapid, effective processing of key adversary signals of interest (SOIs) and optimize data flows to provide actionable data to the warfighter.

The MTE portfolio will include three lines of effort (LOEs) to provide rapid, effective processing of signals of interest and to optimize data flows to provide actionable data to the warfighter. LOE 1 will focus on the data acquisition and data conditioning of the signals of interest. LOE 2 will focus on enhancing data processing capabilities by identifying and developing supporting technologies and processes. LOE 3 will focus on defining and enhancing the necessary infrastructure to support the MTE portfolio efforts. MTE will focus on enhancing Enterprise capabilities and infrastructure.

**FY 2024 Plans:**

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
<p style="text-align: right; margin-right: 10px;">0.860      1.250      26.194      0.000      26.194</p>					

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
<p>- Continues development, demonstration, and transition of activities focused on SOI data acquisition and conditioning to provide MTE at scale through the identification, tracking, and engagement of numerous moving or mobile targets in a highly contested, multi-domain environment</p> <p>- Conducts planning, requirements definition, and acquisition strategy development for activities focused on additional SOI data acquisition and conditioning, enhancing Enterprise data processing capabilities, and enhancing the MTE infrastructure to provide rapid, effective processing of key adversary SOIs and optimize data flows to provide actionable data to the warfighter</p> <p><b>FY 2025 Base Plans:</b></p> <p>- Will continue and significantly expand initiative development, demonstration, and transition activities focused on SOI data acquisition and conditioning to provide MTE at scale through the identification, tracking, and engagement of numerous moving or mobile targets in a highly contested, multi-domain environment</p> <p>- Will initiate development, demonstration, and transition for activities focused on enhancing Enterprise data processing capabilities to meet tactically-relevant MTE requirements</p> <p>- Will initiate development, demonstration, and transition for activities focused on the MTE infrastructure to provide rapid, effective processing of key adversary SOIs and optimize data flows to provide actionable data to the warfighter</p> <p><b>FY 2025 OCO Plans:</b></p> <p>None.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b></p> <p>Funding increased due to expansion of data acquisition and conditioning development, demonstration and transition activities and progression from requirements definition and planning to development, demonstration and transition for enhanced processing and MTE infrastructure activities. Further details can be provided at a higher classification level.</p>					
<b>Accomplishments/Planned Programs Subtotals</b>	28.809	25.749	50.263	0.000	50.263

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

**Remarks**  
N/A

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**Appropriation/Budget Activity**  
3600: *Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development*

**R-1 Program Element (Number/Name)**  
PE 0207247F / AF TENCAP

**E. Acquisition Strategy**

Projects are selected based upon needs identified by the program's customers - DOD Departments, Combatant Commands, Components, and/or MAJCOMs. Projects are mainly executed via AF TENCAP-owned single-award, multi- performer Indefinite Delivery/Indefinite Quantity contract or via existing contracts maintained by other agencies. The U.S. Government organization sponsoring a project is responsible for assuming acquisition, deployment, logistics, sustainment and budgetary responsibilities for the developed capability after it has been successfully demonstrated by AF TENCAP.

AF TENCAP projects typically use an incremental acquisition strategy. AF TENCAP utilizes a disciplined systems engineering approach that allows program teams to solve problems through a series of segments. Each segment must meet the defined success criteria before progressing to the next segment, mitigating cost and schedule risk.

Contracts funded in this program element will be awarded using competitive procedures to the maximum extent possible.



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

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207247F / AF TENCAP	<b>Project (Number/Name)</b> 670001 / Air Force TENCAP
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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

<b><i>Exploitation Applications</i></b>	
Exploitation Applications Developed, Evaluated, and Released	
<b><i>Moving Target Engagement</i></b>	
Line of Effort 1	
Line of Effort 2	
Line of Effort 3	

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207247F / AF TENCAP	<b>Project (Number/Name)</b> 670001 / Air Force TENCAP

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Exploitation Applications</i></b>				
Exploitation Applications Developed, Evaluated, and Released	1	2023	4	2029
<b><i>Moving Target Engagement</i></b>				
Line of Effort 1	1	2023	4	2029
Line of Effort 2	2	2024	4	2029
Line of Effort 3	2	2024	4	2029