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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2023 Air Force **Date:** April 2022

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs</i>	<b>R-1 Program Element (Number/Name)</b> PE 0308608F / <i>Electronic Warfare Integrated Reprogramming (EWIR) - Software Pilot Program</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	5.794	0.000	5.794	5.935	6.145	6.418	6.648	Continuing	Continuing
682045: <i>Electronic Warfare Integrated Reprogramming</i>	-	0.000	0.000	5.794	0.000	5.794	5.935	6.145	6.418	6.648	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Develops software and data tools to perform Electronic Warfare Integrated Reprogramming (EWIR). EWIR provides analytical capabilities and reachback support for DoD acquisition, planning and mission execution activities. These capabilities ensure electronic warfare (EW) systems and integrated combat platforms correctly recognize and respond to enemy, friendly and noncombatant systems operating within the electromagnetic environment. The effort includes software and data tools used to identify electromagnetic spectrum emitter changes that impact combat defensive and electronic warfare systems and to conduct detailed analyses in support of operational mission planning, tactics, techniques and procedures (TTP) development, acquisition and test and evaluation. These analyses provide the means to understand the performance of systems in hostile environments, directly impacting the survivability of combat-coded USAF aircraft and aircrews. Funding for this exhibit directly supports efforts funded in PE 0207439F, Electronic Warfare Integrated Reprogramming (EWIR). Program funding was moved from PE 0207439F OMAF to PE 0308608F BA-8 RDTE as part of the BA-8 software pilot program.

This program is in Budget Activity 8, Software and Digital Technology Pilot Program because this budget activity includes funding provided for expenses necessary for agile development, test and evaluation, procurement, production and modification, and the operation and maintenance of these programs.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	5.794	0.000	5.794
Total Adjustments	0.000	0.000	5.794	0.000	5.794
• 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	0.000	0.000	5.794	0.000	5.794

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<p><b>Title:</b> Software and Data Tool Development</p> <p><b>Description:</b> Software and data tool development in support of Electronic Warfare Integrated Reprogramming (EWIR).</p> <p><b>FY 2022 Plans:</b> Software and data tool development in support of Electronic Warfare Integrated Reprogramming (EWIR).</p> <p><b>FY 2023 Plans:</b> Software and data tool development in support of Electronic Warfare Integrated Reprogramming (EWIR).</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Program funding was moved from PE 0207439F OMAF to PE 0308608F BA-8 RDTE as part of the BA-8 software pilot program.</p>	-	0.000	5.794
<b>Accomplishments/Planned Programs Subtotals</b>	-	0.000	5.794

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

N/A

**Remarks**

**E. Acquisition Strategy**

Software and data tools in support of Electronic Warfare Integrated Reprogramming (EWIR) will be developed using a combination of contracted support and government teams.





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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Air Force		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 3600 / 8	<b>R-1 Program Element (Number/Name)</b> PE 0308608F / <i>Electronic Warfare Integrated Reprogramming (EWIR) - Software Pilot Program</i>	<b>Project (Number/Name)</b> 682045 / <i>Electronic Warfare Integrated Reprogramming</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Software and Data Tool Development</i></b>				
Software and Data Tool Development	3	2023	3	2024