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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2021 Air Force **Date:** February 2020

<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 0305881F / <i>Rapid Cyber Acquisition</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	-	4.146	4.383	4.262	0.000	4.262	4.545	4.627	9.271	9.441	Continuing	Continuing
670374: <i>Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt</i>	-	4.146	4.383	4.262	0.000	4.262	4.545	4.627	9.271	9.441	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The Rapid Cyber Acquisition (RCA) initiative provides new cyber capabilities in response to a continuously evolving threat environment. The delivery of capabilities to Combatant and Joint Force Commanders, in mission relevant timeframes (0-60 days), enhances the nation's ability to operate within the highly-dynamic cyberspace domain.

The RCA initiative expedites cyber development and modifications of USAF cyber capabilities through the integration with and technical support to other Service and Government Agency activities to leverage select Air Force-developed technologies and/or operational capabilities. RCA develops material or non-material cyber solutions and conducts rapid prototyping, integration, and transition activities of cyber capabilities. Activities include but are not limited to development of software/hardware systems, integration and transition of lab-developed cyber capabilities, developmental testing, operational evaluation, manpower, studies, analysis, pilots, demonstrations, and risk reduction efforts for emerging technologies.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver Rapid Cyber Acquisition capabilities. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605831F.

The FY 2021 funding request was reduced by \$0.198 million to account for the availability of prior year execution balance.

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 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
Previous President's Budget	4.303	4.383	4.460	0.000	4.460
Current President's Budget	4.146	4.383	4.262	0.000	4.262
Total Adjustments	-0.157	0.000	-0.198	0.000	-0.198
• 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	-0.157	0.000			
• Other Adjustments	0.000	0.000	-0.198	0.000	-0.198

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
<b>Title:</b> Rapid Cyber Acquisition (RCA)	4.146	4.383	4.262	0.000	4.262
<b>Description:</b> Provides dynamic research and development activities to leverage funding from cyber operations requirements owners to conduct quick look assessments, solution design, rapid prototyping, testing, and quick reaction fielding of cyber capabilities.					
<b>FY 2020 Plans:</b>					
- Provides professional and technical subject matter expertise to deliver direction and guidance for offensive cyber operations and computer network exploitation information systems to support the Air Force's cyber mission objectives					
- Implements multidisciplinary targeting, execute-target-systems analysis, and conduct developmental planning in support of the USAF cyber mission					
- Designs cyber solutions to meet specific combatant command, AF major command, and other agency requirements					
- Utilizes a highly skilled rapid reaction team to prototype and deliver cyber capability and perform quick look operational and technical assessments					
- Provides a secure lab capability to support research, prototyping, development, and testing of cyber warfare capabilities					
<b>FY 2021 Base Plans:</b>					

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<ul style="list-style-type: none"> <li>- Will continue to provide professional and technical subject matter expertise to deliver direction and guidance for offensive cyber operations and computer network exploitation information systems to support the Air Force's cyber mission objectives</li> <li>- Will maintain multidisciplinary targeting, conduct target systems analysis, and execute developmental planning in support of the USAF cyber mission</li> <li>- Will design cyber solutions to meet specific combatant command, AF major command, and other agency requirements</li> <li>- Will continue to utilize a highly skilled rapid reaction team to prototype and deliver cyber capability and perform quick look operational and technical assessments</li> <li>- Will provide an enhanced secure lab capability to support research, prototyping, development, and testing of cyber warfare capabilities</li> </ul> <p><b>FY 2021 OCO Plans:</b> N/A</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> - Funding decreased to address other USAF priorities.</p>					
<b>Accomplishments/Planned Programs Subtotals</b>	4.146	4.383	4.262	0.000	4.262

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

**Remarks**

**E. Acquisition Strategy**  
The Rapid Cyber Acquisition (RCA) initiative utilizes a tailorable acquisition strategy that facilitates rapid delivery of material and nonmaterial solutions to solve operational cyber operations requirements. This approach allows flexibility for solutions to enter the acquisitions process at any phase of the acquisition life cycle. All plans contain sufficient information for the Milestone Decision Authority to determine readiness to enter into the applicable phase of the acquisition process.

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2021 Air Force</b>											<b>Date:</b> February 2020				
<b>Appropriation/Budget Activity</b> 3600 / 7				<b>R-1 Program Element (Number/Name)</b> PE 0305881F / <i>Rapid Cyber Acquisition</i>				<b>Project (Number/Name)</b> 670374 / <i>Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt</i>							

<b>Support (\$ in Millions)</b>				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Cyber Capabilities Support Office (CCSO) Interagency Personnel Agreement (IPA)	SS/FFP	MIT Lincoln Laboratory : Lexington, MA	-	0.389	Dec 2018	0.389	Dec 2019	0.301	Nov 2020	0.000		0.301	Continuing	Continuing	0.389
Due Diligence Research & Analysis	SS/CPFF	Novetta solutions : Mclean, VA	-	0.157	Mar 2019	0.157	Mar 2020	0.000		0.000		0.000	0.000	0.314	-
Cyber Capability Design	C/FFP	X8 Solutions, Inc : Oak Hill, VA	-	1.670	Nov 2018	1.750	Nov 2019	1.331	Mar 2021	0.000		1.331	Continuing	Continuing	1.750
Internal Development	SS/CPFF	JHU Applied Physics Lab : Baltimore, MD	-	1.571	Apr 2019	1.728	Apr 2020	1.530	Feb 2021	0.000		1.530	Continuing	Continuing	1.728
<b>Subtotal</b>			-	3.787		4.024		3.162		0.000		3.162	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Joint Information Range Development Environment (CCSO Lab Environment)	SS/CPFF	Novetta Solutions : Mclean, VA	-	0.359	May 2019	0.359	May 2020	1.100	May 2021	0.000		1.100	Continuing	Continuing	0.359
<b>Subtotal</b>			-	0.359		0.359		1.100		0.000		1.100	Continuing	Continuing	N/A

	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract	
<b>Project Cost Totals</b>		-	4.146	4.383	4.262	0.000	4.262	Continuing	Continuing	N/A

**Remarks**



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2021 Air Force		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305881F / <i>Rapid Cyber Acquisition</i>	<b>Project (Number/Name)</b> 670374 / <i>Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Cyber Capability Support Office (CCSO)</i></b>				
CCSO Technical Direction	1	2019	4	2025
Due Diligence Research and Analysis	1	2019	4	2020
Cyber Capability Design	1	2019	4	2025
Internal Development	1	2019	4	2025
JIOR Development Environment (CCSO Lab Environment)	1	2019	4	2025