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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 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</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	-	42.068	37.121	59.539	0.000	59.539	62.696	64.123	67.668	69.003	Continuing	Continuing
642812: <i>Acquisition/System Security Engineering</i>	-	20.227	17.137	25.336	0.000	25.336	35.796	36.532	37.854	38.601	Continuing	Continuing
642834: <i>Mitigations</i>	-	15.815	14.261	27.203	0.000	27.203	19.725	20.269	22.226	22.665	Continuing	Continuing
642836: <i>Mission Risk Analysis</i>	-	6.026	5.723	7.000	0.000	7.000	7.175	7.322	7.588	7.737	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program funds activities at the Cyber Resiliency Office for Weapon Systems (CROWS), which provides cyber capabilities and acquisition support to weapon system programs across the Department of the Air Force (DAF). The CROWS improves the cyber resiliency of DAF weapon systems to preserve mission effectiveness in contested cyberspace environments. Its goal is to integrate cyber resiliency into emerging and fielded weapon systems in order to mitigate critical cyber-based vulnerabilities. The CROWS' mission directly aligns with the National Defense Strategy (NDS). The NDS highlights integrated deterrence as vital to safeguarding U.S. national interests from aggression and strategic attacks by building a resilient, survivable Joint Force in the cyber domain, which requires the Department of Defense (DoD) to prioritize investments in cyber defense, resilience, and the continued integration of cyber capabilities into the full spectrum of military operations.

This program addresses cyber resiliency to improve weapon system survivability and mitigate mission risks through three primary activities. The first activity comprises DAF Program Executive Office (PEO) and Program Management Office (PMO) acquisition guidance, training, acquisition tool-development, and resourcing to facilitate weapon system-focused cyber resiliency integration. Notably, this includes hiring, training, and embedding Cyber Focus Teams (CFTs) directly within PEOs and PMOs. Additionally, the first activity includes developing capabilities to share cyber intelligence and vulnerability information across multiple acquisition programs to help identify, develop, and prototype enterprise counter cyber threat technologies. The second activity is to conduct weapon systems cyber analysis to identify and prioritize threat-informed vulnerabilities, and then identify, develop, and present viable courses of action to mature the material and nonmaterial mitigation trade space. The third activity is to design mitigation strategies and prototype mitigation solutions, emphasizing critical vulnerabilities that impact multiple weapon systems.

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, and 0606398F

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</i>
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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	43.372	37.121	60.818	0.000	60.818
Current President's Budget	42.068	37.121	59.539	0.000	59.539
Total Adjustments	-1.304	0.000	-1.279	0.000	-1.279
• 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	-1.304	0.000			
• Other Adjustments	0.000	0.000	-1.279	0.000	-1.279

Change Summary Explanation

The FY 2025 funding request was reduced by \$1.384 million to account for the availability of prior year execution balances.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force										Date: March 2024		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</i>				Project (Number/Name) 642812 / <i>Acquisition/System Security Engineering</i>			
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
642812: <i>Acquisition/System Security Engineering</i>	-	20.227	17.137	25.336	0.000	25.336	35.796	36.532	37.854	38.601	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Acquisition/System Security Engineering (SSE) project encompasses several activities. First, it develops DAF and DoD system security engineering and acquisition security processes, policies, and contracting language. Additionally, it explores and develops digital engineering solutions to efficiently and effectively document, map, and report the evolving cyber vulnerability landscape for individual DAF weapon systems. Second, this project refines intelligence collection and processes to provide actionable information on weapon system cyber threats. Third, it delivers cyber resiliency training, manning strategies, and CFTs, which provide weapon system cyber acquisition expertise to PEOs and PMOs to bridge cyber resiliency/security manpower, experience, and knowledge gaps. Each CFT's unique mix of expertise, knowledge, and skills is required to effectively counter weapon system cyber threats, which are innately different and more complex than "traditional" networked, Internet Protocol-based systems. Fourth, this project enables rapid response to emerging threats by identifying low Technology Readiness Level (TRL) cyber resilient technology projects, via non-traditional industry partners and DoD laboratories, for accelerated maturation activities to shorten fielding timelines for operational use. Additionally, it identifies, evaluates, and prioritizes emerging cyber techniques, products, and technologies for further development and prototyping to posture DAF weapon systems to counter emerging threats. Fifth, the project bolsters DAF cyber resiliency/security by supporting common secure environments for program offices to share information on classified weapon system cyber intelligence, threats, and vulnerabilities. Sixth, it supports Defense Industrial Base data protection efforts and DAF PEOs with program protection efforts including hardware assurance, software assurance, supply chain risk management, and other weapon system cybersecurity/resiliency activities.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2023	FY 2024	FY 2025
Title: Acquisition/System Security Engineering	20.227	17.137	25.336
Description: Evaluates, transitions, and applies cyber resiliency activities into policy, processes, and products to enhance weapon system cybersecurity.			
FY 2024 Plans: Continue to evolve the Acquisition/SSE requirements, processes, policies, and contracting language to influence cyber resiliency in all phases of the acquisition process. Focus and consolidate intelligence collection and processes to provide actionable information on cyber threats to the weapons system community. Transition common security environments to system and mission owners to enable program offices to collaborate/share information on classified weapon system cyber intelligence threats and vulnerabilities as well as the necessary verification and validation infrastructure (technology, hardware/software modeling and lab resources) to understand, reconcile, and program against emerging cyber resiliency attack vectors. Continue delivery of cyber expertise to PEOs through CFT manpower, continue to identify acquisition cyber resiliency training gaps, analyze required			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</i>	Project (Number/Name) 642812 / <i>Acquisition/System Security Engineering</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>knowledge and skill sets, and develop increasingly more technical and hands on training to support the acquisition workforce. Identify, evaluate, and prioritize emerging cyber techniques, products, and technologies for further development and prototyping to posture DAF weapon systems to counter emerging threats.</p> <p><i>FY 2025 Plans:</i> Expand Acquisition/SSE requirements, processes, policies, and contracting language to influence cyber resiliency in all phases of the acquisition process. Refine intelligence collection and processes to provide actionable information on cyber threats to the weapons system community. Develop digital engineering concepts to federate virtual environments and enable program offices to collaborate and share classified weapon system cyber intelligence threats, vulnerabilities, verification, and validation infrastructure (technology, hardware/software modeling and lab resources) with system and mission owners. Facilitate understanding, reconciliation, and adequate programming against current and emerging cyber attack vectors. Delivery of cyber expertise, mitigations, and mission risk analysis to PEOs through CFTs, and to identify acquisition cyber resiliency training gaps, analyze required knowledge and skill sets, and develop increasingly more technical and hands-on training to support the acquisition workforce. Identify, evaluate, and prioritize emerging cyber techniques, products, and technologies for further development and prototyping of digitally engineered solutions to standardize automated processes that will develop a more robust security posture for DAF weapon systems and response to emerging threats.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> FY 2025 funding increased compared to FY 2024 by \$8.199 million due to Air Force and Space Force organizational needs growth in cyber risk assessments, acquisition and operational requirements, and mitigation demands submissions accompanying expanded CROWS embedded CFT manning levels. Increased funding will be placed in developing a broader range of cyber resiliency technologies through enhancing methods to identify cyber threats to weapon systems, building a more robust process of assessing low TRL technologies for their potential advancement, and expanding opportunities to mature prospective technologies into mitigation solutions and enabling weapon system cyber attributes to digitally reference architectures and models, standardize cyber ontology, and trace and assess software bill of materials.</p>			
Accomplishments/Planned Programs Subtotals	20.227	17.137	25.336

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

Remarks

D. Acquisition Strategy
When possible, activities in this effort will leverage current competitively-awarded contracts. Additional necessary contracts funded in this program element will be awarded using either competitive or sole source procedures, whichever is most appropriate. The government agency responsible for managing the program is

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the Air Force Life Cycle Management Center, Cyber Resiliency Office for Weapon Systems, Wright-Patterson Air Force Base, Ohio and Hanscom Air Force Base, Massachusetts.		

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

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</i>	Project (Number/Name) 642812 / <i>Acquisition/System Security Engineering</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			
Common Secure Environment	Various	Various : Various	-	2.600	Nov 2022	-		-		-		-	Continuing	Continuing	-
Intel collection skills to identify cyber threats to weapon systems	Various	Various : Various	-	2.000	Dec 2022	3.000	Dec 2023	3.000	Dec 2024	-		3.000	Continuing	Continuing	-
Education and Training	Various	Various : Various	-	1.600	Jan 2023	1.500	Jan 2024	1.500	Jan 2025	-		1.500	Continuing	Continuing	-
Cyber Resiliency Technologies Development	Various	Various : Various	-	6.627	Nov 2022	4.381	Nov 2023	9.230	Nov 2024	-		9.230	Continuing	Continuing	-
Subtotal			-	12.827		8.881		13.730		-		13.730	Continuing	Continuing	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			
System Security Engineering requirements, policy and guidance documents (DTIC)	Various	DTIC : Various	-	0.456	Jan 2023	0.456	Jan 2024	0.456	Jan 2025	-		0.456	Continuing	Continuing	-
MITRE	Various	MITRE : Bedford, MA	-	4.944	Nov 2022	5.000	Nov 2023	5.150	Nov 2024	-		5.150	Continuing	Continuing	-
CMU/SEI	Various	Carnegie Mellon Univ. : Pittsburgh, PA	-	0.800	Dec 2022	0.800	Dec 2023	1.000	Dec 2024	-		1.000	Continuing	Continuing	-
Direct Cite Authority - Civ Pay	Various	Various : Various	-	-		-		-		-		-	Continuing	Continuing	-
Subtotal			-	6.200		6.256		6.606		-		6.606	Continuing	Continuing	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, Travel, Government Purchase Card	Various	Various : Various	-	1.200	Dec 2022	2.000	Dec 2023	5.000	Dec 2024	-		5.000	Continuing	Continuing	-

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</i>	Project (Number/Name) 642812 / <i>Acquisition/System Security Engineering</i>

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

Acquisition/System Security Engineering																												
Transition common cyber security environments																												
Support common cyber security environments																												
Prototype and deliver enhanced system security engineering processes and products																												
Prototype and deliver cyber security design and contractual requirements																												
Prototype and deliver acquisition cyber intel analysis products and techniques																												
Develop weapon system cyber training																												
Deploy cyber focus teams																												
Maintain cyber focus teams																												
Prototype advanced cyber resiliency technology																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</i>	Project (Number/Name) 642812 / <i>Acquisition/System Security Engineering</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Acquisition/System Security Engineering				
Transition common cyber security environments	1	2023	4	2024
Support common cyber security environments	1	2025	4	2029
Prototype and deliver enhanced system security engineering processes and products	1	2023	4	2029
Prototype and deliver cyber security design and contractual requirements	1	2023	4	2029
Prototype and deliver acquisition cyber intel analysis products and techniques	1	2023	4	2029
Develop weapon system cyber training	1	2023	4	2029
Deploy cyber focus teams	1	2023	4	2025
Maintain cyber focus teams	1	2026	4	2029
Prototype advanced cyber resiliency technology	1	2023	4	2029

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

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</i>	Project (Number/Name) 642834 / <i>Mitigations</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
642834: <i>Mitigations</i>	-	15.815	14.261	27.203	0.000	27.203	19.725	20.269	22.226	22.665	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Mitigations project prototypes mitigations to high risk cyber vulnerabilities and recommends a transition path for fielded weapon systems, subsystems, and support systems. As part of the project, the CROWS performs the engineering analysis and partners with program offices for the affected weapon systems to develop a mitigation strategy. The project also supports the CROWS to lead the non-recurring engineering effort to prototype mitigation solutions that can be fielded on multiple weapon systems and transition the mitigation to programs for implementation and sustainment. Finally, the project enables the CROWS to develop a centralized data repository that catalogs proven materiel mitigations for use across DAF weapon system program offices to maximize prototyping returns on investment.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2023	FY 2024	FY 2025
Title: Cyber Mitigation Prototyping	15.815	14.261	27.203
Description: Support and evaluate weapon systems' cyber risk assessments to identify, validate, and prioritize mitigations required for cyber vulnerabilities/susceptibilities. Partner with system owners and acquisition PMOs to develop and transition prototype mitigations.			
FY 2024 Plans: Narrow focus on prototyping mitigation opportunities for cyber vulnerabilities on fielded weapon systems, subsystems, and support systems in realistic, high-fidelity environments and identifying threat-informed risks/vulnerabilities. Continue to collaborate with system owners and acquisition program offices to prototype mitigation projects and implement technology transfer of prototyped solutions within the associated acquisition program office, concentrating on major weapon systems. Mature centralized data repository for mitigations addressing weapon system cyber risks and vulnerabilities. Continue to support mitigation integration requirements by translating/mapping threats to enterprise mitigation techniques using mature methodologies for weapon system common reference architectures. Manage Office of the Secretary of Defense (OSD) and National Security Agency (NSA) requests on DAF weapon systems' cyber vulnerability and mitigation activities.			
FY 2025 Plans: Increase prototyping mitigation activities for cyber vulnerabilities on fielded weapon systems, subsystems, and support systems in realistic, high-fidelity environments and identifying threat-informed risks/vulnerabilities. Grow collaborations with system owners and acquisition program offices to prototype mitigation projects and implement technology transfer of prototyped solutions within the associated acquisition program office, concentrating on major weapon systems. Mature centralized data repository for mitigations addressing weapon system cyber risks and vulnerabilities. Evolve mitigation integration requirements by translating/			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force		Date: March 2024		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</i>	Project (Number/Name) 642834 / <i>Mitigations</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>mapping threats to mitigation techniques using mature methodologies for weapon system common reference architectures. Manage and respond to OSD's and NSA's requests on DAF weapon systems' cyber vulnerability and mitigation activities.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> FY 2025 funding increased compared to FY 2024 by \$12.942 million due to greater emphasis and support given to weapon system cyber risk mitigation solutions including DoD Strategic Cybersecurity Program (SCP) mitigation projects and technologies that can increase the cyber resiliency of numerous lower priority weapon systems. Funding increase will broaden focus, selection opportunities, and range of possible material and non-material solutions for mitigation demonstrations and platform integration activities for high priority weapons that support combatant command Operational Plans (OPLANs) and SCP projects.</p>				
Accomplishments/Planned Programs Subtotals		15.815	14.261	27.203
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
<p>When possible, activities in this effort will leverage current competitively-awarded contracts. Additional necessary contracts funded in this program element will be awarded using either competitive or sole source procedures. The government agency responsible for managing the program is the Air Force Life Cycle Management Center, Cyber Resiliency Office for Weapon Systems, Wright-Patterson Air Force Base, Ohio and Hanscom Air Force Base, Massachusetts.</p>				

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

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</i>	Project (Number/Name) 642834 / <i>Mitigations</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			
Material Solutions for Major Weapon Systems	Various	Various : Various	-	3.519	Jan 2023	2.271	Jan 2024	10.109	Jan 2025	-		10.109	Continuing	Continuing	-
Material Solutions for Subsystems	Various	Various : Various	-	2.204	Dec 2022	1.500	Dec 2023	6.568	Dec 2024	-		6.568	Continuing	Continuing	-
Non-Material Solutions	Various	Various : Various	-	0.834	Dec 2022	1.000	Dec 2023	4.335	Dec 2024	-		4.335	Continuing	Continuing	-
Centralized Data Repository	Various	Various : Various	-	0.404	Dec 2022	0.500	Dec 2023	1.951	Dec 2024	-		1.951	Continuing	Continuing	-
Subtotal			-	6.961		5.271		22.963		-		22.963	Continuing	Continuing	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			
MITRE	Various	MITRE : Bedford, MA	-	3.000	Jan 2023	3.000	Jan 2024	2.000	Jan 2025	-		2.000	Continuing	Continuing	-
Defense Technical Information Center (DTIC)	Various	DTIC : Various	-	0.240	Jan 2023	0.240	Jan 2024	0.240	Jan 2025	-		0.240	Continuing	Continuing	-
Subtotal			-	3.240		3.240		2.240		-		2.240	Continuing	Continuing	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, Travel, Government Purchase Card	Various	Various : Various	-	5.614	Dec 2022	5.750	Dec 2023	2.000	Dec 2024	-		2.000	Continuing	Continuing	-
Subtotal			-	5.614		5.750		2.000		-		2.000	Continuing	Continuing	N/A

			Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	15.815	14.261	27.203	-	27.203	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</i>	Project (Number/Name) 642834 / <i>Mitigations</i>

	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

Mitigations																												
Prototype cyber mitigations on known cyber vulnerabilities																												
Identify transition plan for tested mitigations to known cyber vulnerabilities																												
Centralized Data Repository																												

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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
Mitigations				
Prototype cyber mitigations on known cyber vulnerabilities	1	2023	4	2029
Identify transition plan for tested mitigations to known cyber vulnerabilities	1	2023	4	2029
Centralized Data Repository	1	2023	4	2029

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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
642836: <i>Mission Risk Analysis</i>	-	6.026	5.723	7.000	0.000	7.000	7.175	7.322	7.588	7.737	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Mission Risk Analysis project discovers and analyzes cyber susceptibilities/vulnerabilities to DAF weapon systems and characterizes their risks. The project promotes the enhancement of cyber discovery methodologies and capabilities within the DAF. The focus is on assessing the gaps in technologies that can mitigate cyber vulnerabilities. This activity builds upon existing efforts that identify and mitigate cyber vulnerabilities and does not duplicate similar ongoing efforts or conduct redundant assessments on systems that have already been evaluated. The CFT members developed under the Acquisition/System Security Engineering project 642812, contribute diverse assessment data sets from various weapon system platforms to enhance the CROWS' ability to identify and validate vulnerabilities across the fielded fleet. This activity disseminates cyber risk information to inform acquisition decisions, provides feedback to focus future assessments, and also feeds into the Mitigations project 642834.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2023	FY 2024	FY 2025
Title: Cyber Mission Risk Analysis	6.026	5.723	7.000
Description: Discovers, analyzes, and coordinates information sharing of mission risk and risk discovery activities for DAF weapon systems.			
FY 2024 Plans: Manage coordination of cyber vulnerability assessments and validate, mature, and continue development of capabilities to provide focused assessments where required. Refine developing solutions to find, consolidate, analyze, assess, and share cyber vulnerabilities through an enterprise-level data analysis capability and data strategy. Continue to provide subject matter expertise through the Cyber Risk Analyst Working Group (CRA WG) to augment DoD cyber vulnerability assessments and ongoing discovery tasks.			
FY 2025 Plans: Expand coordination of cyber vulnerability assessments and validate, mature, and continue development of capabilities to provide focused assessments where required. Acquire and develop solutions to meet emerging mission requirements to find, consolidate, analyze, assess, and share cyber vulnerabilities through an enterprise-level data analysis capability and data strategy. Increase traceability between mission risk analysis vulnerability assessments and mitigations efforts. Proliferate subject matter expertise through the CRA WG to augment DoD cyber vulnerability assessments and ongoing discovery tasks.			
FY 2024 to FY 2025 Increase/Decrease Statement: FY 2025 funding increased compared to FY 2024 by \$1.277 million due to the need to further the research, design, modernization, and delivery of accessible, efficient, and interoperable enterprise-wide data sharing capabilities/applications to bolster program			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</i>	Project (Number/Name) 642836 / <i>Mission Risk Analysis</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
system protection in response to expanded DAF-wide organizational demands. Cloud-based data strategies, cross-domain solutions, and software solutions will be explored for possible application implementation and migration into a cloud environment to improve enterprise-wide data utilization with standard, mandated, and maturing applications.			
Accomplishments/Planned Programs Subtotals	6.026	5.723	7.000

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

N/A

Remarks

D. Acquisition Strategy

When possible, activities in this effort will leverage current competitively-awarded contracts. Additional necessary contracts funded in this program element will be awarded using either competitive or sole source procedures, whichever is most appropriate. The government agency responsible for managing the program is the Air Force Life Cycle Management Center, Cyber Resiliency Office for Weapon Systems, Wright-Patterson Air Force Base, Ohio and Hanscom Air Force Base, Massachusetts.

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</i>	Project (Number/Name) 642836 / <i>Mission Risk Analysis</i>

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

<i>Mission Risk Analysis</i>	
Develop, institutionalize and utilize a Data Capture Repository and Analytics Team (DCRA)	
Execute risk analysis and discovery on weapons systems and across mission areas. Leverage and augment existing and emerging assessment environments and tools.	
Engineer solution candidates for reducing cyber risk with DAF weapon systems.	

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</i>	Project (Number/Name) 642836 / <i>Mission Risk Analysis</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Mission Risk Analysis</i>				
Develop, institutionalize and utilize a Data Capture Repository and Analytics Team (DCRA)	1	2023	4	2029
Execute risk analysis and discovery on weapons systems and across mission areas. Leverage and augment existing and emerging assessment environments and tools.	1	2023	4	2029
Engineer solution candidates for reducing cyber risk with DAF weapon systems.	1	2023	4	2029