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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Air Force **Date:** March 2023

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 0208088F / <i>AF Defensive Cyberspace Operations</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	-	21.950	16.809	113.064	0.000	113.064	126.271	136.461	147.491	171.974	Continuing	Continuing
677820: <i>Computer Security RDTE: Firestarter</i>	-	8.527	8.000	7.068	0.000	7.068	7.224	7.406	7.556	7.708	Continuing	Continuing
677821: <i>Cyberspace Vulnerability Assessment</i>	-	11.789	8.809	6.618	0.000	6.618	6.742	6.902	7.037	7.389	Continuing	Continuing
677822: <i>Cyber Defense Analysis</i>	-	0.281	0.000	0.301	0.000	0.301	0.309	0.316	0.323	0.339	Continuing	Continuing
677823: <i>AFCERT</i>	-	1.353	0.000	99.077	0.000	99.077	111.996	121.837	132.575	156.538	Continuing	Continuing

Note
In FY 2024, PE 0308605F, (Air Force Defensive Cyber Systems (AFDCS) - Software Pilot Program), Project 682001, (AFDCS Continuous Capability Delivery) efforts were transferred to PE 0208088F, (AF Defensive Cyberspace Operations), Project 677821, (Cyberspace Vulnerability Assessment), in order to meet the requirements of the 2023 Appropriation Law.

A. Mission Description and Budget Item Justification
AF Defensive Cyberspace Operations (AF DCO) consists of three distinct efforts: the Firestarter effort (BPAC 677820), activities to adapt legacy cyber weapon systems to the new IDCS (BPAC 677821 and 6771822), the Integrated Defensive Cyberspace System (IDCS) (BPAC 677823). Together these efforts provide defensive cyber capabilities that protect the AFNET and DoD network enclaves, to include their associated computer systems, software applications and sensitive operational information against unauthorized intrusion, corruption, and/or destruction. The IDCS also provides visibility and situational awareness of the cyber terrain to local commanders and senior leaders. The emphasis of the combined program is directed toward defensive cyberspace capabilities, computer and network systems security, damage assessment and recovery, cyber threat recognition, attribution, and mitigation, and active response methodologies in response to evolving threats and changes to cyber environment. These areas of emphasis are realized through continuous software development, research and development, test and system acquisition in the areas of proactive defense, defensive counter cyberspace, cyberspace intelligence, surveillance and reconnaissance, command and control situational awareness, persistent network operations, as well as decision support, recovery, and digital forensics.

IDCS will provide the modular hardware and cloud-based containerized software from which to execute the Cyberspace Vulnerability Assessment/Hunter (CVA/H), Air Force Cyber Defense (ACD), and Cyber Defense Analysis (CDA) missions. IDCS will equip USAF operational units, predominantly Mission Defense Teams, and network defenders with the capabilities required to monitor and protect USAF networks, Control Systems and Weapon Systems. IDCS will serve the Total Force - Active Duty (AD), Air National Guard (ANG), and Air Force Reserve Command (AFRC). IDCS will enable operations by monitoring, collecting, analyzing, and reporting on sensitive information released from friendly unclassified systems, such as computer networks, telephones, email, and USAF websites. IDCS will be used to conduct vulnerability assessments, network intrusion analysis, systems vulnerability analysis, and enable protection against the advanced persistent threat. The system will be deployed at all levels of classification, beginning at Unclassified and Secret enclaves and expanding to higher levels. The significant increase in RDT&E funding

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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 0208088F / <i>AF Defensive Cyberspace Operations</i>
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requested for this portfolio reflects the development activity required to transform AF Defensive Cyber to meet the urgent need to deploy modernized, interconnected cyber defenses in the Pacific theater in the near term to deter aggression.

Activities also include various Advisory and Assistance Services (A&AS) and Program Management Administration (PMA) activities to support the aforementioned development efforts.

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, 0605832F, 0605833F, 0605898F, 0606398F. In FY22 0.310M was expended for civilian pay expenses in this program element and in FY23 0.787M 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.

B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	18.449	8.367	7.305	0.000	7.305
Current President's Budget	21.950	16.809	113.064	0.000	113.064
Total Adjustments	3.501	8.442	105.759	0.000	105.759
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-8.367			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	8.000			
• Congressional Directed Transfers	0.000	9.508			
• Reprogrammings	3.658	0.000			
• SBIR/STTR Transfer	-0.157	0.000			
• Other Adjustments	0.000	-0.699	105.759	0.000	105.759

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 677820: *Computer Security RDTE: Firestarter*

Congressional Add: *Autonomous Satellite Cybersecurity*

	FY 2022	FY 2023
Congressional Add Subtotals for Project: 677820	-	8.000
Congressional Add Totals for all Projects	-	8.000

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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 0208088F / *AF Defensive Cyberspace Operations*

Change Summary Explanation

In FY24, the DAF added 105.759M to develop IDCS, which will defend AF networks against more complex and capable cyber threats from China, the US's pacing challenge, Russia, and other state actors.

FY23 -8.367M Congressional Directed Reduction: The FY23 Appropriation Law cited this amount as a "programming error."

FY23 9.508M Congressional Directed Transfer: Transfer from line 282, Air Force Defensive Cyber Systems (AFDCS) - Software Pilot Program in accordance with the FY23 Appropriation Law.

FY23 -0.699 Other Adjustments is for FFRDC Reductions

FY22 3.658M Reprogramming: In FY22, 0208088F received a Below Threshold Reprogramming to modernize its Continuous Integration/Continuous Delivery (CI/CD) pipeline and accelerate software deliveries of operational capabilities.

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force										Date: March 2023		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations				Project (Number/Name) 677820 / Computer Security RDTE: Firestarter			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
677820: Computer Security RDTE: Firestarter	-	8.527	8.000	7.068	0.000	7.068	7.224	7.406	7.556	7.708	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Firestarter program provides newly improved capabilities and technical transition opportunities for Cyber Defense and Information Assurance (IA) technologies and tools needed to defend Air Force Command, Control, Communications, Computer, and Intelligence (C4I) systems from cyber attacks, while ensuring recovery in the event of an attack. The emphasis of the program is directed toward defensive cyberspace capabilities; computer and network systems security; damage assessment and recovery; cyber threat recognition, attribution, and mitigation; and active response methodologies in response to evolving threats and changes to cyber environment. These areas of emphasis are realized through research and development, test and acquisition in the areas of proactive defense, defensive counter cyberspace, cyberspace intelligence, surveillance and reconnaissance & situational awareness, persistent network operations, as well as decision support, recovery, and digital forensics. Current Air Force systems, such as the AFNET NIPRNet Gateways, SIPRNet Modernization program, and Host Based Security System leverage this technology to meet their information assurance and defensive cyberspace needs/requirements.

Firestarter utilizes cyber and IA technology investments by US Cyber Command, the Defense Advanced Research Projects Agency (DARPA), the National Security Agency (NSA), Director of National Intelligence (DNI), Intelligence Advanced Research Projects Activity (IARPA), and the Department of Homeland Security (DHS), and various government research laboratories, to jump-start its development of solutions to existing Air Force cyber and IA requirements. This program supports AF Cyberspace strategic direction in support of Cyber Defense which provides capabilities to 16th AF, as AF component to US Cyber Command (USCYBERCOM), Defense Information Systems Agency (DISA), National Security Agency (NSA), and other services to ensure Global Information Grid (GIG) cyber and IA requirements are being met. Activities performed include those designed to identify, analyze, test, rapidly acquire, and integrate emerging IA and cyber technology and defensive cyberspace weapons systems and capabilities into all regions of the GIG - terrestrial, airborne, and space systems. In addition, this effort will support implementation of DoD Enterprise-wide Information Assurance (IA) & Computer Network Defense (CND) Solutions Steering Group (ESSG) solutions.

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 FY22 \$0.000M was expended for civilian pay expenses in this program element, and in FY23 \$0.000M is forecasted for civilian pay expenses in this program element.

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

	FY 2022	FY 2023	FY 2024
Title: Firestarter	8.527	0.000	7.068

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force	Date: March 2023
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Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations	Project (Number/Name) 677820 / Computer Security RDTE: Firestarter
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
<p>Description: To provide newly improved capabilities and technical transition opportunities for Cyber Defense and Information Assurance (IA) technologies and tools needed to defend Air Force Command, Control, Communications, Computer, and Intelligence (C4I) systems from cyber attacks, while ensuring recovery in the event of an attack.</p> <p>FY 2023 Plans: N/A</p> <p>FY 2024 Plans:</p> <ul style="list-style-type: none"> - Will perform incident response via remote analysis of end points - Will conduct detection, interception, and analysis of advanced malware - Will perform detection and eradication of stealth dormant implants - Will develop influence capabilities over adversary perceptions of blue cyber assets - Will intercept of malicious code over covert channels - Will enhance cyber hardening of ICS/SCADA infrastructure - Will research cyber defense for 5G protocol infrastructure and devices - Will research cyber defense of space-born assets - Will mature and implement AI/ML systems for Cyber Mission Assurance - Will adapt technologies in all of the above areas for joint distribution and sustainment via Iron Bank (DoD's cyber capability repository) <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding increased due to a return to baseline following a Congressional directed reduction in the FY23 Appropriation Law.</p>			
Accomplishments/Planned Programs Subtotals	8.527	0.000	7.068

	FY 2022	FY 2023
Congressional Add: Autonomous Satellite Cybersecurity	-	8.000
FY 2023 Plans: - Will research and develop new methods of autonomous cybersecurity and the applications of such onto satellites for the purpose of securing missions from cyber-attack in the space domain		
Congressional Adds Subtotals	-	8.000

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

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations	Project (Number/Name) 677820 / Computer Security RDTE: Firestarter

D. Acquisition Strategy

Firestarter conducts late stage Science and Technology (S&T) for tech demo and tech transition to warfighter employment. All contracts within this project are awarded using full and open competition and utilize evolutionary capability and incremental development. Where appropriate, collaborative efforts are conducted with services and agencies within the USAF to result in more robust and cost effective solutions. Contracting activities are primarily done through other agencies when deemed more advantageous. All aspects of the Firestarter project are managed by the Air Force Research Laboratory.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Air Force **Date:** March 2023

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations	Project (Number/Name) 677820 / Computer Security RDTE: Firestarter
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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Firestarter Development	C/CPFF	Various : Various	-	4.511	Jan 2022	0.000	Jan 2023	4.650	Jan 2024	-		4.650	Continuing	Continuing	-
Firestarter Integration	C/CPFF	Various : Various	-	1.929	Jan 2022	0.000	Jan 2023	1.318	Jan 2024	-		1.318	Continuing	Continuing	-
Congressional Add: Autonomous Satellite Cybersecurity	C/Various	Various : Various	-	-		8.000	Mar 2023	-		-		-	Continuing	Continuing	-
Subtotal			-	6.440		8.000		5.968		-		5.968	Continuing	Continuing	N/A

Remarks
Multiple contractors and multiple universities reflect on-going efforts with over a dozen contractors and universities. Each has a different contract date depending on when that particular contract was awarded.

Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Firestarter Testing	C/CPFF	Various : Various	-	1.862	Jan 2022	0.000	Jan 2023	1.100	Jan 2024	-		1.100	Continuing	Continuing	-
Subtotal			-	1.862		0.000		1.100		-		1.100	Continuing	Continuing	N/A

Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Firestarter PMA	C/CPAF	Various : Various	-	0.225	Jan 2022	-		-		-		-	0.000	0.225	-
Subtotal			-	0.225		-		-		-		-	0.000	0.225	N/A

			Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	8.527	8.000	7.068	-	7.068	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations	Project (Number/Name) 677820 / Computer Security RDTE: Firestarter

FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
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

Firestarter	
Maturation of Cyber Defense Capabilities for Transition to Operations	
Congressional Add: Autonomous Satellite Cybersecurity	
Research and develop new methods of autonomous satellite cybersecurity	

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations	Project (Number/Name) 677820 / Computer Security RDTE: Firestarter

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Firestarter				
Maturation of Cyber Defense Capabilities for Transition to Operations	1	2022	4	2028
Congressional Add: Autonomous Satellite Cybersecurity				
Research and develop new methods of autonomous satellite cybersecurity	3	2023	1	2024

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force										Date: March 2023		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations				Project (Number/Name) 677821 / Cyberspace Vulnerability Assessment			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
677821: <i>Cyberspace Vulnerability Assessment</i>	-	11.789	8.809	6.618	0.000	6.618	6.742	6.902	7.037	7.389	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Funding in this BPAC contributes to the development of software and related activities in support of the creation of an Integrated Defensive Cyberspace system.

The Cyberspace Vulnerability Assessment/Hunter (CVA/H) weapon system provides Air Force Cyber Command (AFCYBER) and Combatant Commanders additional mobile precision in addition to currently fielded protection capabilities to identify, pursue, and mitigate cyberspace threats. The CVA/H weapon system performs defensive sorties world-wide via remote or on-site access. CVA/H executes Hunter missions on AF and DoD networks & systems. Hunter operations characterize and then eliminate threats for the purpose of mission assurance. The Hunter mission focuses on the capability to find, fix, track, target, engage, and assess (F2T2EA) the advanced persistent threat (APT). This effort funds development efforts to enhance command and control situational awareness and to expand the capability of the current weapon system to meet scope and scale of the USCYBERCOM directed Cyber Protection Teams and AF Mission Defense Teams.

Activity in this BPAC also supports development of enhancements to legacy DCO weapon systems, as needed, to support current operations and facilitate the transition of legacy capabilities to the Integrated Defensive Cyber System described more fully in BPAC 677823.

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 elements 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, and 0606398F. In FY22 \$0.310M was expended for civilian pay expenses in this BPAC, and in FY23 \$0.787M is forecasted for civilian pay expenses in this BPAC.

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

	FY 2022	FY 2023	FY 2024
Title: CVA/H Development	11.789	8.809	6.618
Description: Development and integration of solutions supporting defensive cyber modernization in the area of DCO capabilities and technologies to meet capability gaps required by Mission Defense Teams.			
FY 2023 Plans: Continuing to develop modifications to the CVA/H weapon system based on AF operational cyber needs.			
FY 2024 Plans: Will continue to develop modifications to the CVA/H weapon system based on AF operational cyber needs.			
FY 2023 to FY 2024 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations	Project (Number/Name) 677821 / Cyberspace Vulnerability Assessment

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Funding decreased to support software development needs for IDCS.			
Accomplishments/Planned Programs Subtotals	11.789	8.809	6.618

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

Line Item	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
• OPAF 03 834320: C3 Countermeasures	27.770	82.029	89.455	-	89.455	34.749	17.380	26.956	47.189	Continuing	Continuing

Remarks

D. Acquisition Strategy

Funding in BPAC 677821 contributes to the Integrated Defensive Cyberspace System and as such is accomplished under the same Acquisition Strategy described in BPAC 677823.

Acquisition Strategy for the Integrated Defensive Cyberspace System (IDCS) employs the Software Acquisition Pathway defined in DoDI 5000.87 and multiple software development providers. IDCS will be highly integrated with JCWA and ABMS, leveraging this work to complement DAF investments in Defensive Cyber. IDCS will deliver new software capabilities through a continuous integration, continuous delivery pipeline built on Platform One capabilities. IDCS will employ an agile development process to deliver incremental capabilities at the speed required to counter the emerging and persistent cyber threat. IDCS will integrate commercial off the shelf, Government off the shelf and open source software capabilities as appropriate to achieve an effective, efficient mission capability.

IDCS will procure software development capacity through various existing and new contractual vehicles. Contract sources include Government-Wide Acquisition Contracts (GWACs) such as Alliant, Encore II, NASA Solutions for Enterprise-Wide Procurement IV (SEWP IV), and General Services Administration (GSA) Federal Supply Schedules. IDCS will also use Small Business Innovative Research (SBIR) and Air Force Research Laboratory (AFRL) contracts, FFRDCs, Advisory and Assistance Services (A&AS) contracts, and support from Test and Evaluation Enterprises. Wherever possible IDCS will use competitive contracts and task orders to ensure cost efficiency and industry engagement.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Air Force												Date: March 2023			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
3600 / 7				PE 0208088F / AF Defensive Cyberspace Operations				677821 / Cyberspace Vulnerability Assessment							
Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
CVA/H Development	Various	Various : Various	-	9.115	Jan 2022	6.426	Jan 2023	6.618	Jan 2024	-		6.618	Continuing	Continuing	-
Subtotal			-	9.115		6.426		6.618		-		6.618	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test Support	MIPR	47 Test Squadron : Lackland AFB, TX	-	0.672	Oct 2021	1.596	Oct 2022	-		-		-	Continuing	Continuing	-
Subtotal			-	0.672		1.596		-		-		-	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
CVA/H: Program Support Costs (PSC)	Various	AFLCMC/PZ : Hanscom AFB, MA	-	1.692	Jan 2022	-		-		-		-	Continuing	Continuing	-
CVA/H Direct Cite Authority Civilian Pay	TBD	USAF : Hanscom AFB, MA	-	0.310	Oct 2021	0.787	Oct 2022	-		-		-	Continuing	Continuing	-
Subtotal			-	2.002		0.787		-		-		-	Continuing	Continuing	N/A
Project Cost Totals			-	11.789		8.809		6.618		-		6.618	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations	Project (Number/Name) 677821 / Cyberspace Vulnerability Assessment

FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
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

Cyber Vulnerability Assessment	
CVA/H Development	
Test and Evaluation	

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations	Project (Number/Name) 677821 / Cyberspace Vulnerability Assessment

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Cyber Vulnerability Assessment				
CVA/H Development	1	2022	4	2028
Test and Evaluation	1	2022	4	2024

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force										Date: March 2023		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations				Project (Number/Name) 677822 / Cyber Defense Analysis			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
677822: Cyber Defense Analysis	-	0.281	0.000	0.301	0.000	0.301	0.309	0.316	0.323	0.339	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Cyberspace Defense Analysis (CDA) weapon system conducts Defensive Cyberspace Operations (DCO) during peace time and contingency operations and network defense by monitoring, collecting, analyzing, and reporting sensitive information transiting or residing on the AFNet. CDA assessments of non-secure telecommunications determine type and amount of sensitive and/or classified information that may have been disclosed to our adversaries and encompasses several mission subsets, including: Telephony Communications, Radio Frequency (RF) Communications, Email Communications, Internet based Capabilities (IbC), and Cyber Operations Risk Assessment (CORA). The CDA weapon system protects the AF's critical information such as PII, OPSEC, and other sensitive information through passive monitoring and active Data Loss Protection (DLP). CDA shows its true capability in the force protection realm, OPSEC, DLP, etc. and helps ensure our adversaries are not provided early warning of our plans, capabilities, or limitations.

Without proper funding the CDA Operators will not be able to determine potential impacts and operational adjustments resulting from information disclosures or identify compromised information from network intrusions. There will be a decreased assurance of network defense and an increase in the amount of lost PII, OPSEC, and other sensitive information. Continuing funding is essential in developing new capabilities to combat the rapidly evolving cyber threats.

Activity in this BPAC supports development of enhancements to legacy DCO weapon systems to support current operations and facilitate the transition of legacy capabilities to the Integrated Defensive Cyber System described more fully in BPAC 677823.

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 FY22 \$0.000M was expended for civilian pay expenses in this program element, and in FY23 \$0.000M is forecasted for civilian pay expenses in this program element.

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

	FY 2022	FY 2023	FY 2024
Title: Cyber Defense Analysis	0.281	0.000	0.301
Description: Engineering support to conduct Cyberspace Defense Analysis (CDA) assessment of non-secure telecommunications during peace time and contingency operations.			
FY 2023 Plans: N/A			
FY 2024 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force		Date: March 2023		
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations	Project (Number/Name) 677822 / Cyber Defense Analysis		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
- Will support integration of CDA capabilities into IDCS				
FY 2023 to FY 2024 Increase/Decrease Statement: Funding increased to support new software development activities.				
Accomplishments/Planned Programs Subtotals		0.281	0.000	0.301
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
Funding in BPAC 677822 contributes to the Integrated Defensive Cyberspace System and as such is accomplished under the same Acquisition Strategy				
Acquisition Strategy for the Integrated Defensive Cyberspace System (IDCS) employs the Software Acquisition Pathway defined in DoDI 5000.87 and multiple software development providers. IDCS will be highly integrated with JCWA and ABMS, leveraging this work to complement DAF investments in Defensive Cyber. IDCS will deliver new software capabilities through a continuous integration, continuous delivery pipeline built on Platform One capabilities. IDCS will employ an agile development process to deliver incremental capabilities at the speed required to counter the emerging and persistent cyber threat. IDCS will integrate commercial off the shelf, Government off the shelf and open source software capabilities as appropriate to achieve an effective, efficient mission capability.				
IDCS will procure software development capacity through various existing and new contractual vehicles. Contract sources include Government-Wide Acquisition Contracts (GWACs) such as Alliant, Encore II, NASA Solutions for Enterprise-Wide Procurement IV (SEWP IV), and General Services Administration (GSA) Federal Supply Schedules. IDCS will also use Small Business Innovative Research (SBIR) and Air Force Research Laboratory (AFRL) contracts, FFRDCs, Advisory and Assistance Services (A&AS) contracts, and support from Test and Evaluation Enterprises. Wherever possible IDCS will use competitive contracts and task orders to ensure cost efficiency and industry engagement.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Air Force **Date:** March 2023

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations	Project (Number/Name) 677822 / Cyber Defense Analysis
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Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
CDA Program Support Costs	Various	AFLCMC/PZ : Hanscom, MA	-	0.281	Jan 2022	0.000	Jan 2023	0.301	Jan 2024	-		0.301	Continuing	Continuing	-
Subtotal			-	0.281		0.000		0.301		-		0.301	Continuing	Continuing	N/A

Remarks
Provides program office subject matter expertise, engineering continuity, technical maturation and expertise, and access to an extensive professional network for future capabilities.

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	0.281	0.000	0.301	-	0.301	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations	Project (Number/Name) 677822 / Cyber Defense Analysis

FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
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

Cyber Defense Analysis	
Cyber Defense Analysis Program Support Costs	[REDACTED]

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations	Project (Number/Name) 677822 / Cyber Defense Analysis

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Cyber Defense Analysis				
Cyber Defense Analysis Program Support Costs	1	2022	4	2024

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force										Date: March 2023		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations				Project (Number/Name) 677823 / AFCERT			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
677823: AFCERT	-	1.353	0.000	99.077	0.000	99.077	111.996	121.837	132.575	156.538	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

In response to the continually evolving cyber threat, the AF Defensive Cyber Operations activity is modernizing the legacy USAF cyberspace defensive capability funded in PE28088F into an Integrated Defensive Cyberspace System (IDCS) capability. The significant increase in RDT&E funding requested for this portfolio reflects the urgent need to deploy modernized, interconnected cyber defenses in the Pacific theater in the near term to deter Chinese aggression. This new modular architecture will provide CSSP capability, Hunt forward capability, and the data flow required to enable situational awareness for local commanders and higher headquarters on status of AF networks, and associated Control Systems and Weapon Systems. The development and fielding of IDCS is central to meeting the Chinese pacing challenge identified in the 2022 National Security Strategy.

IDCS will provide the modular hardware and cloud-based containerized software from which to execute the Cyberspace Vulnerability Assessment/Hunter (CVA/H), Air Force Cyber Defense (ACD), and Cyber Defense Analysis (CDA) missions. IDCS will equip USAF operational units, predominantly Mission Defense Teams, and network defenders with the capabilities required to monitor and protect USAF networks, Control Systems and Weapon Systems. IDCS will serve the Total Force - Active Duty (AD), Air National Guard (ANG), and Air Force Reserve Command (AFRC). IDCS will enable operations by monitoring, collecting, analyzing, and reporting on sensitive information released from friendly unclassified systems, such as computer networks, telephones, email, and USAF websites. IDCS will be used to conduct vulnerability assessments, network intrusion analysis, systems vulnerability analysis, and enable protection against the advanced persistent threat. The system will be deployed at all levels of classification, beginning at Unclassified and Secret enclaves and expanding to higher levels in future years.

IDCS will be integrated with and leverage developmental activity from across the DoD including USCYBERCOM's Joint Cyber Weapons Architecture and the Department of the AF's Command and Control Battle Management System (formerly known as ABMS).

Activities also include various Advisory and Assistance Services (A&AS) and Program Management Administration (PMA) activities to support the aforementioned development efforts.

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 FY22 0.000M was expended for civilian pay expenses in this program element, and in FY23 0.000M is forecasted for civilian pay expenses in this program element.

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

	FY 2022	FY 2023	FY 2024
Title: Cyberspace Defense Development	1.353	0.000	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force		Date: March 2023		
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations	Project (Number/Name) 677823 / AFCERT		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
<p>Description: AF Cyberspace Defense (ACD) weapon system to prevent, detect, and respond to adversarial penetration in AF networks</p> <p>FY 2023 Plans: N/A</p> <p>FY 2024 Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: N/A</p>				
<p>Title: Integrated Defensive Cyberspace System (IDCS) Development</p> <p>Description: Note: BPAC 677823 formerly used for AFCERT and ACD will now be used to describe the Integrated Defensive Cyber System (IDCS) that subsumes the missions of AFCERT, CVA/H and CDA. This activity also includes cloud-based big data capabilities and associated research and development to apply machine learning to cyberspace defenses.</p> <p>The USAF will develop a modern containerized software-based system known as IDCS. IDCS will be deployable to physical, virtual and cloud-based hosts and will provide for interconnectivity, management and data processing across the data fabric. The physical domain will leverage modular commercial hardware - procured with Other Procurement Air Force (OPAF) funding in 0208088F -- with processing power tailored to the data throughput and speed requirements present at each AF base across both fixed and mobile configurations. The architecture will include data transport to Big Data Platform capabilities present at Enterprise and at the tactical edge. Development activities include data processing and visualization to take advantage of additional data made available by the IDCS.</p> <p>IDCS includes the Air Force's Big Data Platform, Enterprise Logging Ingest & Cyber Situational Awareness Refinery (ELICSAR), which is federated with, and leverages the technical baseline of the Unified Platform program. IDCS leverages Platform One's Continuous Integration/Continuous Delivery (CI/CD) technology to enable continuous Authorization to Operate, essential to deploy system updates at the speed of relevance.</p> <p>IDCS will employ, over time, data analysis powered by advances in Machine Learning and Artificial Intelligence.</p> <p>FY 2023 Plans:</p>		-	0.000	99.077

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations	Project (Number/Name) 677823 / AFCERT

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
N/A			
<p>FY 2024 Plans:</p> <ul style="list-style-type: none"> - Will develop the software baseline for the IDCS architecture which will integrate and leverage Open-Source Software, Government Off the Shelf (GOTS) and Commercial Off the Shelf (COTS) software. - Will conduct test and evaluation including extensive, ongoing cyber security and penetration testing - Will refine digital engineering processes to attain and maintain both internal and external alignment and integration. - Will refine CI/CD deployment processes and tools to enable continuous delivery - Will award and/or expand software development contracts to support the following Team structure, consistent with and aligned to components of the IDCS Architecture <ul style="list-style-type: none"> -- CI/CD Platform Team(s) - Responsible for developing and operating continuous integration / continuous delivery software delivery pipelines -- Control Plane Team(s) - Responsible for developing and operating the core platform operating system -- Data Plane Team(s) - Responsible for developing and operating cyber applications -- Data Platform, Ingest, Analytics and Display Team(s) for the ELICSAR BDP - Responsible for ingestion of data into the IDCS, and data analytics, displays and presentation in the form of dashboards at multiple levels: Senior Leader, Local Commander, CSSP operator. Includes early adoption of machine learning and artificial intelligence applications where appropriate -- Persona Team(s) - Responsible for the development of cyber mission tools/interfaces tailored for CSSP, Hunt, Mission Defense, and other cyber missions - Will support the rapid adoption of new operational capabilities through training - Will develop and refine model-based representations of the IDCS to facilitate integration with USCYBERCOM JCWA and C3BM/ ABMS and other related capabilities - Will develop tools and environments required to support software development <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding increased due to the development of a new architecture for Defensive Cyber Operations to defend against cyber attacks including those from China, Russia, and other state actors.</p>			
Accomplishments/Planned Programs Subtotals	1.353	0.000	99.077

C. Other Program Funding Summary (\$ in Millions)												
<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To Complete</u>	<u>Total Cost</u>	
• OPAF 03 834320: C3 Countermeasures	35.463	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations	Project (Number/Name) 677823 / AFCERT

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

<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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Remarks

D. Acquisition Strategy

Acquisition Strategy for the Integrated Defensive Cyber System (IDCS) employs the Software Acquisition Pathway defined in DoDI 5000.87 and multiple software development providers. IDCS will be highly integrated with JCWA and ABMS, leveraging this work to complement DAF investments in Defensive Cyber. IDCS will deliver new software capabilities through a continuous integration, continuous delivery pipeline built on Platform One capabilities. IDCS will employ an agile development process to deliver incremental capabilities at the speed required to counter the emerging and persistent cyber threat. IDCS will integrate commercial off the shelf, Government off the shelf and open source software capabilities as appropriate to achieve an effective mission capability.

IDCS will procure software development capacity through various existing and new contractual vehicles. Contract sources include Government-Wide Acquisition Contracts (GWACs) such as Alliant, Encore II, NASA Solutions for Enterprise-Wide Procurement IV (SEWP IV), and General Services Administration (GSA) Federal Supply Schedules. IDCS will also use Small Business Innovative Research (SBIR) and Air Force Research Laboratory (AFRL) contracts, FFRDCs, Advisory and Assistance Services (A&AS) contracts, and support from Test and Evaluation Enterprises. Wherever possible IDCS will use competitive contracts and task orders to ensure cost efficiency and industry engagement.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Air Force **Date:** March 2023

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations	Project (Number/Name) 677823 / AFCERT
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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
ACD Cyberspace Defense Development	C/CPAF	Various : Various	-	1.353	Oct 2021	-		-		-		-	Continuing	Continuing	-
IDCS: Software Development - CI/CD Platform	TBD	Not specified. : TBD	-	-		-		8.400	Jan 2024	-		8.400	Continuing	Continuing	-
IDCS: Software Development - Control Plane	TBD	Not specified. : TBD	-	-		-		8.400	Jan 2024	-		8.400	Continuing	Continuing	-
IDCS: Software Development - Data Plane	TBD	Not specified. : TBD	-	-		-		8.400	Jan 2024	-		8.400	Continuing	Continuing	-
IDCS: Software Development - Data Platform, Ingest, Analytics, and Display (ELICSAR BDP)	TBD	Not specified. : TBD	-	-		-		26.489	Jan 2024	-		26.489	Continuing	Continuing	-
IDCS: Software Development - Persona	TBD	Not specified. : TBD	-	-		-		22.200	Jan 2024	-		22.200	Continuing	Continuing	-
Subtotal			-	1.353		-		73.889		-		73.889	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
IDCS: Data Science	TBD	Not specified. : TBD	-	-		-		2.000	Jan 2024	-		2.000	Continuing	Continuing	-
IDCS: Early Continuous Operator Training Support	TBD	Not specified. : TBD	-	-		-		2.619	Jan 2024	-		2.619	Continuing	Continuing	-
IDCS: Digital Engineering	TBD	Not specified. : TBD	-	-		-		2.000	Jan 2024	-		2.000	Continuing	Continuing	-
Subtotal			-	-		-		6.619		-		6.619	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208088F / AF Defensive Cyberspace Operations	Project (Number/Name) 677823 / AFCERT

FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
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

AF Cyberspace Defense (ACD)	
ACD Development	
Test and Evaluation	
Integrated Defensive Cyberspace System (IDCS)	
IDCS Development	
Test and Evaluation	

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208088F / <i>AF Defensive Cyberspace Operations</i>	Project (Number/Name) 677823 / <i>AFCERT</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>AF Cyberspace Defense (ACD)</i>				
ACD Development	1	2022	4	2023
Test and Evaluation	1	2022	4	2023
<i>Integrated Defensive Cyberspace System (IDCS)</i>				
IDCS Development	1	2024	4	2028
Test and Evaluation	1	2024	4	2028