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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 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0208087F / <i>Distributed Cyber Warfare Operations</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	-	69.414	50.122	29.996	0.000	29.996	33.060	43.696	45.168	35.297	Continuing	Continuing
674543: <i>AF Offensive Cyber Operations</i>	-	69.414	50.122	29.996	0.000	29.996	33.060	43.696	45.168	35.297	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note
In FY 2025, PE 0305881F, (Rapid Cyber Acquisition), Project 670374, (Electronic Combat Support C3 Protection/Multi-Mission, Technology and Support) efforts were transferred to PE 0208087F, (Distributed Cyber Warfare Operations), Project 674543, (AF Offensive Cyber Operations), in order to consolidate Air Force Offensive Cyber development.

A. Mission Description and Budget Item Justification
Distributed Cyber Warfare Operations (DCWO) consists of a portfolio of programs and projects that conduct Research, Development, Testing and Evaluation (RDT&E) leading to operations-ready offensive cyberspace capabilities (OCO). This includes the transition of efforts from laboratory, industry, and academia via studies, accelerated prototyping, and technology demonstrations. DCWO effectiveness comes from balancing acquisition related RDT&E efforts in three Air Force (AF) offensive cyber operations (OCO) mission threads (Off Network, Telephony Network, and the associated Infrastructure that propel the Off Network and Telephony Network mission threads) across three OCO-related subsystems and technical enablers (Platforms, Access, and Cyber Weapons) that enable products, services, and systems in the DCWO portfolio. The resulting DCWO capabilities provide cyber effects to Combatant Commanders and other offensive cyber customers to enable air superiority.

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 FY23 \$1.859M was expended for civilian pay expenses in this program element, and in FY24 \$2.250M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	76.425	50.122	24.521	0.000	24.521
Current President's Budget	69.414	50.122	29.996	0.000	29.996
Total Adjustments	-7.011	0.000	5.475	0.000	5.475
• 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	-4.600	0.000			
• SBIR/STTR Transfer	-2.411	0.000			
• Other Adjustments	0.000	0.000	5.475	0.000	5.475

Change Summary Explanation

The FY23 funding request decreased by \$4.600M due to below threshold reprogramming.

The FY25 funding request decreased by \$0.006M due to the transfer to PE 0306250JCY, Cyber Operations Technology Support, Project CY06, Cyber Weapons/Tools: AF Payloads, in order to satisfy Congressional requirements in the FY22 NDAA, Section 1507, transferring responsibilities for the planning, programming, budgeting, and execution of the resources to United States Cyber Command (USCYBERCOM).

The FY25 funding request increased by \$9.703M due to PE 0305881F, (Rapid Cyber Acquisition), Project 670374, (Electronic Combat Support C3 Protection/ Multi-Mission, Technology and Support) efforts transferring to PE 0208087F, (Distributed Cyber Warfare Operations), Project 674543, (AF Offensive Cyber Operations), in order to consolidate Air Force Offensive Cyber development.

The FY25 funding request increased by \$4.600M due to the standup of Mansfield, OH ANG 179 Cyber Wing.

The FY25 funding request decreased by \$8.882M to account for the availability of prior year execution balances.

The FY25 funding request increased by \$0.060 due to inflation.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: AF Cyber Mission Platform (CMP)	8.300	9.263	0.000	0.000	0.000
Description: Platform capabilities primarily consist of the USAF Cyber Mission Platform (CMP) program. CMP is an ACAT III program of record that provides a modular, configurable framework for cyberspace operations.					

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
<p>The CMP framework is currently being applied to offensive cyber operations and may also be applied to defensive cyber operations in the future as prioritized by CMP stakeholders. CMP uses an Agile acquisition strategy that allows the USAF to dynamically prioritize the delivery of operational capabilities. The CMP program develops capability enhancements on a regular cadence and delivers them to operations based on operational need and acceptance timelines. The program office will posture to work RDT&E efforts on core CMP capabilities until the USCYBERCOM Joint Common Access Platform (JCAP) is fielded for operations. Moreover, the program office will continue to conduct DCWO development activities to integrate unique, Air Force-specific, platform related capabilities in support of cyber missions. Relevant components of the former Converging Universal Battlespace Enabler (CUBE) architecture will continue as required by DCWO customers.</p> <p>FY 2024 Plans: Continue CMP enhancements to satisfy prioritized customer requirements. - Continue to execute a continuous delivery program. - Continue to decompose the CUBE architecture into more flexible and manageable modular components to better support multiple DCWO customers and their associated missions. - Transition CMP to USCYBERCOM JCAP per USCYBERCOM direction.</p> <p>FY 2025 Base Plans: FY 2025 Base Plans: Will transfer remaining essential products of the AF CMP major thrust within PE 0208087F, (Distributed Cyber Warfare Operations), Project 674543, (AF Offensive Cyber Operations) to new FY 2025 DCWO major thrust. Within the new DCWO major thrust, the Platform OCO product line (formerly the AF CMP thrust) will consist of the Off Network, Telephony Network, and Infrastructure mission thread portfolios.</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding decreases due to transfer of AF CMP within PE 0208087F, (Distributed Cyber Warfare Operations), Project 674543, (AF Offensive Cyber Operations) to the new FY 2025 DCWO major thrust.</p>					
<p>Title: Access/Infrastructure</p> <p>Description: Access and Infrastructure capabilities provide connectivity and required infrastructure to conduct OCO. USAF OCO access and infrastructure solutions are developed and fielded through the DCWO program</p>	22.735	40.859	0.000	0.000	0.000

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
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<p>office and also leverage industry and other Government/non-Government mission partner applications and programs.</p> <p>FY 2024 Plans: Continue to develop and field Air Force-unique connectivity and required infrastructure across multiple spectrums leveraging industry and other Government/non-Government mission partner applications and programs.</p> <p>FY 2025 Base Plans: Will transfer the Access/Infrastructure major thrust within PE 0208087F, (Distributed Cyber Warfare Operations), Project 674543, (AF Offensive Cyber Operations) to the new FY 2025 DCWO major thrust. Within the new DCWO major thrust, Access OCO product line (formerly the Access/Infrastructure thrust) will consist of the Off Network, Telephony Network, and Infrastructure mission thread portfolios.</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding decreases due to transfer of Access/Infrastructure major thrust within PE 0208087F, (Distributed Cyber Warfare Operations), Project 674543, (AF Offensive Cyber Operations) to the new FY 2025 DCWO major thrust.</p>					
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<p>Title: Payloads</p> <p>Description: Payloads and Weapons capabilities consist of cyber tools and payloads leveraging industry and other Government/non-Government mission partner-developed applications and programs. In FY 2024, 37.936M from PE 0208087F, Distributed Cyber Warfare Operations, Project 674543, AF Offensive Cyber Operations efforts for foundational tools were transferred to PE 0306250JCY, Cyber Operations Technology Support, Project CY06, Cyber Weapons/Tools: AF Payloads, in order to satisfy Congressional requirements in the FY22 NDAA, Section 1507, transferring responsibilities for the planning, programming, budgeting, and execution of the resources to USCYBERCOM</p> <p>FY 2024 Plans: Currently no FY24 funding/plans</p> <p>FY 2025 Base Plans:</p>	38.379	0.000	0.000	0.000	0.000
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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force				Date: March 2024	
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C. Accomplishments/Planned Programs (\$ in Millions)					
Currently no FY25 funding/plans					
FY 2025 OCO Plans: N/A					
FY 2024 to FY 2025 Increase/Decrease Statement: N/A					
Title: DCWO (Formerly AF Cyber Mission Platform, Access/Infrastructure, and Payloads)					
Description: DCWO portfolio consists of a variety of capabilities previously described as Platform, Access, and Payloads products and services prior to FY 2025. In FY 2025, DCWO programs and projects are managed and delivered in a more cohesive and integrated fashion more closely aligned to OCO organizations executing operations across applicable AF OCO mission threads (Off Network, Telephony Network, and associated Infrastructure that enables the Off network and Telephony network mission threads). Therefore, the new DCWO major thrust will comprise the Platform (formerly the AF CMP thrust), Access (formerly the Access/Infrastructure thrust), and Cyber Weapons (formerly the Payloads thrust) OCO-related product lines as subsystems and technical enablers that will each consist of the Off Network, Telephony Network, and Infrastructure mission thread portfolios. DCWO products and services are managed, developed, fielded, and sustained through the AF Life Cycle Management Center, Cyber Warfare Mission Systems (AFLCMC/HNCO) Program Management Office (PMO).					
FY 2024 Plans: The DCWO major thrust existed in the AF CMP and Access/Infrastructure major thrusts in FY 2024.					
FY 2025 Base Plans: Platforms (Formerly the AF CMP thrust) -Off-network: Will continue to develop and field SPECTRAL RAPTOR capabilities to enable Cyber Enabled Air Superiority (CEAS) -Telephony Network: Will continue to develop and integrate Network Attack System (NAS) capabilities and develop the LOCUTUS mission planning capability -Infrastructure: Will continue to develop and field Air Force-unique connectivity and associated Infrastructure products and services in support of Off Network and Telephony Network mission and capability requirements (i.e., Coral Dragon/Dodgeball, Secure View (SV), Cross-Domain Shared Services Framework (CDSSF) Access (Formerly the Access/Infrastructure thrust)					
	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
	-	0.000	29.996	0.000	29.996

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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 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
-Off-network: Will continue to develop and field SPECTRAL RAPTOR capabilities to enable CEAS -Telephony Network: Will continue to develop and integrate Dark Nebula (DANE) capabilities -Infrastructure: Will continue to develop and field Air Force-unique connectivity and associated Infrastructure products and services in support of Off Network and Telephony Network mission and capability requirements (i.e., Kraken, SV, CDSSF)					
Cyber Weapons (Formerly the Payloads thrust) -Infrastructure: Will continue to develop and field Air Force-unique connectivity and associated Infrastructure products and services in support of Off Network and Telephony Network mission and capability requirements (i.e., Wicked Wizard (WW), SV, CDSSF)					
FY 2025 OCO Plans: N/A					
FY 2024 to FY 2025 Increase/Decrease Statement: N/A					
Accomplishments/Planned Programs Subtotals	69.414	50.122	29.996	0.000	29.996

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

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OPAF 03 834320: C3 Countermeasures	29.051	30.671	25.395	-	25.395	30.172	31.892	33.355	34.016	0.000	214.552

Remarks

E. Acquisition Strategy

The AFLCMC/HNCO PMO will utilize Concept, Development, Risk Management, Production, or Deployment Plans as part of a streamlined approach to DCWO acquisition planning. All plans will contain sufficient information for the Milestone Decision Authority (MDA) to determine readiness to enter into the applicable phase of the acquisition process. DCWO will execute under both new and existing contractual vehicles, such as Government-Wide Acquisition Contract (GWAC) vehicles (Alliant, Encore II, Solutions for Enterprise-Wide Procurement IV (SEWP IV)), General Services Administration (GSA) Federal Supply Schedules, and a Cyber Indefinite Delivery Indefinite Quantity (IDIQ) contract. The use of multiple-award contractual vehicles will provide a wide range of commercially-available products and services that should meet many requirements related to Offensive Cyberspace Operations. These multiple-award contractual vehicles have already met the statutory requirements of the

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

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

R-1 Program Element (Number/Name)
PE 0208087F / *Distributed Cyber Warfare Operations*

Competition in Contracting Act (CICA), which requires a fair opportunity to all contract holders, in accordance with Federal Acquisition Regulation (FAR) 16.505, unless an exception to fair opportunity applies.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force												Date: March 2024			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
3600 / 7				PE 0208087F / Distributed Cyber Warfare Operations				674543 / AF Offensive Cyber Operations							
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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
DCWO	Various	Various : Various : TBD	-	0.000	Nov 2022	0.000	Nov 2023	15.416	Oct 2024	-		15.416	Continuing	Continuing	-
Access	Various	Various : Various : TBD	-	7.640	Nov 2022	7.921	Nov 2023	-		-		-	Continuing	Continuing	-
Platforms	Various	Various : Various : TBD	-	18.025	Nov 2022	27.661	Nov 2023	-		-		-	Continuing	Continuing	-
Payloads Development	Various	Various : Various : TBD	-	31.420	Nov 2022	0.000	Nov 2023	-		-		-	Continuing	Continuing	-
Subtotal			-	57.085		35.582		15.416		-		15.416	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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
DCA-AF Offensive Cyber Operations Development	Allot	USAF Hanscom AFB, MA : TBD	-	2.400	Oct 2022	2.200	Oct 2023	2.210	Oct 2024	-		2.210	Continuing	Continuing	-
Subtotal			-	2.400		2.200		2.210		-		2.210	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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 and Evaluation	PO	47 CTS San Antonio, TX : TBD	-	2.827	Dec 2022	2.590	Dec 2023	2.360	Dec 2024	-		2.360	Continuing	Continuing	-
Subtotal			-	2.827		2.590		2.360		-		2.360	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 / 7	R-1 Program Element (Number/Name) PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	Project (Number/Name) 674543 / <i>AF Offensive Cyber Operations</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>DCWO (Formerly AF Cyber Mission Platform, Access/Infrastructure, and Payloads)</i>	
Platform Off Network Capabilities	
Platform Telephony Network Capabilities	
Platform Infrastructure Capabilities	
Access Off Network Capabilities	
Access Telephony Network Capabilities	
Access Infrastructure Capabilities	
Cyber Weapons Infrastructure Capabilities	
<i>AF Cyber Mission Platform (elements moved to "DCWO - On Network" in FY25)</i>	
CMP	
<i>Access/Infrastructure (moved to "DCWO" - Off Network/"TelephonyNetwork"/"Infrastructure" in FY25)</i>	
Spectral Raptor	
Infrastructure/Chimera	
Infrastructure/Cross Domain	
Telephony Network Access/Network Attack	
Data Analytics/Kraken	
<i>(moved to "DCWO" - "Cyber Weapons" in FY25)</i>	
Neptune Rumble	

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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
<i>DCWO (Formerly AF Cyber Mission Platform, Access/Infrastructure, and Payloads)</i>				
Platform Off Network Capabilities	1	2025	4	2029
Platform Telephony Network Capabilities	1	2025	4	2029
Platform Infrastructure Capabilities	1	2025	4	2029
Access Off Network Capabilities	1	2025	4	2029
Access Telephony Network Capabilities	1	2025	4	2029
Access Infrastructure Capabilities	1	2025	4	2029
Cyber Weapons Infrastructure Capabilities	1	2025	4	2029
<i>AF Cyber Mission Platform (elements moved to "DCWO - On Network" in FY25)</i>				
CMP	1	2023	4	2024
<i>Access/Infrastructure (moved to "DCWO" - Off Network/"TelephonyNetwork"/"Infrastructure" in FY25)</i>				
Spectral Raptor	1	2023	4	2024
Infrastructure/Chimera	1	2023	4	2024
Infrastructure/Cross Domain	1	2023	4	2024
Telephony Network Access/Network Attack	1	2023	4	2024
Data Analytics/Kraken	1	2023	4	2024
<i>(moved to "DCWO" - "Cyber Weapons" in FY25)</i>				
Neptune Rumble	1	2023	4	2023

Note
Notes:

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force	Date: March 2024
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Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	Project (Number/Name) 674543 / <i>AF Offensive Cyber Operations</i>
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Will consolidate products and services previously developed under two AF CMP and Access/Infrastructure major thrusts within PE 0208087F, (Distributed Cyber Warfare Operations), Project 674543, (AF Offensive Cyber Operations) to the new DCWO major thrust in FY25. The new DCWO major thrust will comprise the Platform (formerly the AF CMP thrust), Access (formerly the Access/Infrastructure thrust), and Cyber Weapons (formerly the Payloads thrust) OCO-related product lines as subsystems and technical enablers that will each consist of the Off Network, Telephony Network, and Infrastructure mission thread portfolios. NOTE. Payloads will be renamed to Cyber Weapons as outlined by Congressional requirements in the FY22 NDAA, Section 1507, transferring responsibilities for the planning, programming, budgeting, and execution of the resources to USCYBERCOM.

- DCWO
- Efforts are classified and information can be provided on a need-to-know basis
 - Balances acquisition related RDT&E efforts in three AF OCO mission threads (Off Network, Telephony Network, and the associated Infrastructure that propel the Off Network and Telephony Network mission threads) across three OCO-related subsystems/technical enablers (Platforms, Access, and Cyber Weapons) that enable products, services, and systems in the DCWO portfolio
 - Efforts include: 1. Off-network and telephony network capabilities enabling OCO platforms (i.e., SPECTRAL RAPTOR, CEAS, NAS, LOCUTUS); 2. Off-network and telephony network capabilities enabling OCO access (i.e., SPECTRAL RAPTOR, CEAS, DANE), and various Infrastructure systems across the Platforms, Access, and Cyber Weapons subsystems/technical enablers (i.e., Coral Dragon/Dodgeball, KRAKEN, WICKED WIZARD, SV, and CDSSF)