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

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	-	65.402	72.487	76.592	0.000	76.592	37.199	24.378	26.850	27.445	0.000	330.353
674540: <i>Cyber Tech Products - Payloads</i>	-	41.474	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	41.474
674541: <i>Cyber Tech Projects - Platforms</i>	-	8.378	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.378
674542: <i>Cyber Tech Projects - Access/Infrastructure</i>	-	15.550	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	15.550
674543: <i>AF Offensive Cyber Operations</i>	-	0.000	72.487	76.592	0.000	76.592	37.199	24.378	26.850	27.445	0.000	264.951

**Note**

In FY23, in Budget Activity 7, Program Element 0208087F, Project 674543 contains \$37.346M associated with USCYBERCOM foundation tools. Funding for USCYBERCOM foundational tools has been realigned to USCYBERCOM in FY24 as part of Enhanced Budget Control in accordance with the FY21 NDAA, Section 1746. FY23 is the last FY for the Air Force to fund USCYBERCOM foundational tools out of 0208087F.

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

Distributed Cyber Warfare Operations (DCWO) provides advanced offensive cyber warfare capabilities to the 16th Air Force in direct support of US Cyber Command (USCYBERCOM), AF Major Commands (MAJCOMs), unified commands, and national agency cyber warfighting requirements. DCWO efforts directly support the Joint Network Attack Initial Capabilities Document (ICD), the National Military Strategy for Cyberspace Operations (NMS-CO), Department of Defense Cyber Strategy, USCYBERCOM operational directives, MAJCOM directive and guidance documentation, and other formal requirements documents in the delivery of offensive cyber effects.

Activities within the DCWO deliver operations-ready cyberspace superiority capabilities through the research, development, testing, evaluation, accelerated prototyping, demonstration, and fielding of advanced offensive cyber technologies and capabilities. The ongoing development of peculiar support equipment, facilities, operations, fielding, maintenance, and logistical support of fielded systems permits the rapid adaptation of current cyber capabilities to capitalize on emerging opportunities and mitigate adversary actions. This portfolio of capabilities permits Combatant Commanders the ability to operate in and through cyberspace to manipulate, disrupt, deny, degrade, or destroy targeted computers, information systems, or networks, and actively gather information from computers, information systems, and networks.

DCWO effectiveness comes from balancing three modular and interoperable elements necessary for the successful presentation of offensive cyber capabilities: Platforms, Access/Infrastructure, and Payloads. When unified, these three elements combine to form a cyber mission thread capable of delivering cyber effects to Combatant Commanders, to include cyber operational preparation of the environment, offensive counter-cyber, cyber-attack, electronic warfare operations, mission

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2023 Air Force	<b>Date:</b> April 2022
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<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>
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planning, intelligence, cybersecurity products and services and Command and Control/Situational Awareness (C2SA) tools needed to attack enemy networks, telephony, Integrated Air Defense Systems (IADS), command and control systems, and create cyber effects through the Electromagnetic Spectrum (EMS).

Efforts within DCWO may include the expedited development of innovative solutions for existing and emerging technologies required for the continued superiority within the cyber domain.

This program element may include necessary emergent or unanticipated civilian pay expenses required to manage, execute, and deliver Air Force Distributed Cyber Warfare Operations for emergent or unanticipated 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, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY21 0.000M was expended for civilian pay expenses in this program element, and in FY22 1.420M 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>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Previous President's Budget	68.154	72.487	0.000	0.000	0.000
Current President's Budget	65.402	72.487	76.592	0.000	76.592
Total Adjustments	-2.752	0.000	76.592	0.000	76.592
• 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	-0.507	0.000			
• SBIR/STTR Transfer	-2.245	0.000			
• Other Adjustments	0.000	0.000	76.592	0.000	76.592

**Change Summary Explanation**

The FY 2022 President's Budget submittal did not reflect FY 2023 through FY 2026 funding. Therefore, an explanation of the change between the two budget positions for FY2023 cannot be made in a relevant manner.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Air Force										<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 3600 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>				<b>Project (Number/Name)</b> 674540 / <i>Cyber Tech Products - Payloads</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
674540: <i>Cyber Tech Products - Payloads</i>	-	41.474	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	41.474
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

In FY2022, PE 0208087F, Distributed Cyber Warfare Operations, Project 674540, Cyber Tech Products - Payloads efforts were transferred to PE 0208087F, Distributed Cyber Warfare Operations, Project 674543, AF Offensive Cyber Operations, to consolidate prototyping and development of offensive cyber operations capabilities.

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

Distributed Cyber Warfare Operations (DCWO) conducts Research, Development, Testing and Evaluation (RDT&E) leading to operations-ready cyberspace superiority capabilities including the transition of efforts from laboratory, industry, and academia via studies, accelerated prototyping, and technology demonstrations. DCWO consists of a portfolio of programs and projects providing the rapid acquisition of operational cyber capabilities. DCWO effectiveness comes from balancing funding among three capability thrust areas required for cyber warfare operations: Air Force Platforms, Access and Payloads. The DCWO portfolio provides capabilities by combining these three areas to provide cyber effects to Combatant Commanders. Cyber payload capabilities and foundational tools are required to deliver cyber effects through the DCWO platform and access.

The payloads capability develops and fields cyber tools and payloads leveraging industry and other Government/non-Government mission partnered applications and programs.

Some aspects of the effort are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6614.

This program element may include necessary emergent or unanticipated civilian pay expenses required to manage, execute, and deliver Air Force Distributed Cyber Warfare Operations for emergent or unanticipated 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, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY21 0.0M was expended for civilian pay expenses in this program element, and in FY22 0.0M is forecasted for civilian pay expenses in this program element.

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

<b>Title:</b> Payloads	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<b>Description:</b> The payloads capability develops and fields cyber tools and payloads leveraging industry and other Government/non-Government mission partnered applications and programs.	41.474	0.000	0.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	<b>Project (Number/Name)</b> 674540 / <i>Cyber Tech Products - Payloads</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
Some aspects of the effort are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6614.			
<b>FY 2022 Plans:</b> Refer to Project Number 674543. - FY21 was last year to use Project# 674540. Project# 674540 was consolidated to New Project# 674543 starting in FY22.			
<b>FY 2023 Plans:</b> Refer to Project Number 674543. - FY21 was last year to use Project# 674540. Project# 674540 was consolidated to New Project# 674543 starting in FY22.			
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> N/A			
<b>Accomplishments/Planned Programs Subtotals</b>	41.474	0.000	0.000

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u> <u>Base</u>	<u>FY 2023</u> <u>OCO</u>	<u>FY 2023</u> <u>Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPAF 03 Line Item 834320: <i>C3 Countermeasures</i>	18.782	0.000	0.000	-	0.000	0.000	0.000	0.000	-	0.000	18.782

**Remarks**

**D. Acquisition Strategy**

The Distributed Cyber Warfare Operations program office will utilize Concept, Development, Risk Management, Production, or Deployment Plans as part of a streamlined approach to 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. Distributed Cyber Warfare Operations will utilize 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)), and 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 be able to meet many requirements related to Offensive Cyberspace Operations. These multiple-award contractual vehicles have already met the statutory requirements of the 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 2023 Air Force** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	<b>Project (Number/Name)</b> 674540 / <i>Cyber Tech Products - Payloads</i>
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<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Payload Development	Various	Various : Various	-	4.613	Oct 2020	-		-		-		-	0.000	4.613	-
CMF Foundational Tool Development	Various	Various : Various	-	24.532	Oct 2020	-		-		-		-	0.000	24.532	-
CMF Interoperability Development	Various	Various : Various	-	3.800	Nov 2020	-		-		-		-	0.000	3.800	-
CMF Automated Test Development	Various	Various : Various	-	3.700	Oct 2020	-		-		-		-	0.000	3.700	-
<b>Subtotal</b>			-	36.645		-		-		-		-	0.000	36.645	N/A

<b>Support (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
DCA - Payloads and Effects	Various	USAF : Hanscom AFB, MA	-	1.100	Oct 2020	-		-		-		-	0.000	1.100	-
<b>Subtotal</b>			-	1.100		-		-		-		-	0.000	1.100	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Payload Test and Evaluation	PO	47 CTS : San Antonio, TX	-	0.154	Dec 2020	-		-		-		-	0.000	0.154	-
CMF Foundational Tool Testing	MIPR	47 CTS : San Antonio, TX	-	0.600	Oct 2020	-		-		-		-	0.000	0.600	-
<b>Subtotal</b>			-	0.754		-		-		-		-	0.000	0.754	N/A

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Air Force** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	<b>Project (Number/Name)</b> 674540 / <i>Cyber Tech Products - Payloads</i>
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<b>Management Services (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
PSC - Engineering & Technical Assistance Support Services (Various)	C/FFP	Various : San Antonio, TX	-	1.118	Oct 2020	-		-		-		-	0.000	1.118	-
CMF Foundational Tool PSC (A&AS, FFRDC)	C/Various	Various : Various	-	1.857	Oct 2020	-		-		-		-	0.000	1.857	-
<b>Subtotal</b>			-	2.975		-		-		-		-	0.000	2.975	N/A

	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	-	41.474	-	-	-	-	0.000	41.474	N/A

**Remarks**  
 In FY20, PE 0305251F, Cyberspace Operations Force and Force Support, Project 646008, US Cyber Command Technology Development efforts were transferred to PE 0208087F, Distributed Cyber Warfare Operations, Project 674540, Cyber Tech Projects - Payloads, to consolidate prototyping and development of cyber payload capabilities.

In FY22, PE 0208087F, Distributed Cyber Warfare Operations, Project 674540, Cyber Tech Products - Payloads efforts were transferred to PE 0208087F, Distributed Cyber Warfare Operations, Project 674543, AF Offensive Cyber Operations, to consolidate prototyping and development of offensive cyber operations capabilities.



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Air Force		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	<b>Project (Number/Name)</b> 674540 / <i>Cyber Tech Products - Payloads</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Neptune Rumble</b>				
CMF Foundational Tool Development	1	2021	4	2021
Interoperability Development	1	2021	4	2021
Automated Test	1	2021	4	2021
<b>Saturn Crash</b>				
Tool Development	1	2021	4	2021

**Note**

Neptune Rumble and Saturn Crash each develop payloads against a specific series of targets. These aspects are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6614.

In FY2022, PE 0208087F, Distributed Cyber Warfare Operations, Project 674540, Cyber Tech Products - Payloads efforts were transferred to PE 0208087F, Distributed Cyber Warfare Operations, Project 674543, AF Offensive Cyber Operations, to consolidate prototyping and development of offensive cyber operations capabilities.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Air Force										<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 3600 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>				<b>Project (Number/Name)</b> 674541 / <i>Cyber Tech Projects - Platforms</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
674541: <i>Cyber Tech Projects - Platforms</i>	-	8.378	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.378
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

In FY2022, PE 0208087F, Distributed Cyber Warfare Operations, Project 674541, Cyber Tech Projects - Platforms efforts were transferred to PE 0208087F, Distributed Cyber Warfare Operations, Project 674543, AF Offensive Cyber Operations, to consolidate prototyping and development of offensive cyber operations capabilities.

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

DCWO conducts Research, Development, Testing and Evaluation (RDT&E) leading to operations-ready cyberspace superiority capabilities including the transition of efforts from laboratory, industry, and academia via studies, accelerated prototyping, and technology demonstrations. DCWO consists of a portfolio of programs and projects providing the rapid acquisition of operational cyber capabilities. DCWO effectiveness comes from balancing funding among three capability thrust areas required for cyber warfare operations: Air Force Platforms, Access and Payloads. The DCWO portfolio provides capabilities by combining these three areas to provide cyber effects to Combatant Commanders. Cyber platforms serve as the primary operator interface in the DCWO portfolio and projects encompass hardware and software development.

The platform capability provides user interface and controls by leveraging industry and other Government/non-Government mission partners' applications and programs.

Some aspects of the effort are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6614.

This program element may include necessary emergent or unanticipated civilian pay expenses required to manage, execute, and deliver Air Force Distributed Cyber Warfare Operations for emergent or unanticipated 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, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY21 0.0M was expended for civilian pay expenses in this program element, and in FY22 0.0M is forecasted for civilian pay expenses in this program element.

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

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<b>Title:</b> Platforms	8.378	0.000	0.000
<b>Description:</b> The Cyber Mission Platform (CMP) program is an ACAT III program of record that provides a modular, configurable framework for Cyber Operations. 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. CMP develops capability enhancements on			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	<b>Project (Number/Name)</b> 674541 / <i>Cyber Tech Projects - Platforms</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
a regular cadence and delivers them to operations based on operational need and acceptance timelines. The platform project also includes platform integration development activities necessary to integrate CMP into DCWO mission threads.			
Some aspects of the effort are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6614.			
<b>FY 2022 Plans:</b> Refer to Project Number 674543. - FY21 was last year to use Project# 674541. Project# 674541 was consolidated to New Project# 674543 starting in FY22.			
<b>FY 2023 Plans:</b> Refer to Project Number 674543. - FY21 was last year to use Project# 674541. Project# 674541 was consolidated to New Project# 674543 starting in FY22.			
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> N/A			
<b>Accomplishments/Planned Programs Subtotals</b>	8.378	0.000	0.000

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• OPAF 03 Line Item 834320: <i>C3 Countermeasures</i>	18.782	0.000	0.000	-	0.000	0.000	0.000	0.000	-	0.000	18.782

**Remarks**

**D. Acquisition Strategy**  
The Distributed Cyber Warfare Operations program office will utilize Concept, Development, Risk Management, Production, or Deployment Plans as part of a streamlined approach to 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. Distributed Cyber Warfare Operations will utilize 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)), and 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 be able to meet many requirements related to Offensive Cyberspace Operations. These multiple-award contractual vehicles have already met the statutory requirements of the 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 2023 Air Force** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	<b>Project (Number/Name)</b> 674541 / <i>Cyber Tech Projects - Platforms</i>
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<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Platform Development	C/Various	Various : Various	-	4.303	Nov 2020	-		-		-		-	0.000	4.303	-
<b>Subtotal</b>			-	4.303		-		-		-		-	0.000	4.303	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Platform Test and Evaluation	PO	47 CTS : San Antonio, TX	-	0.150	Dec 2020	-		-		-		-	0.000	0.150	-
<b>Subtotal</b>			-	0.150		-		-		-		-	0.000	0.150	N/A

<b>Management Services (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
PSC - Advisory & Assistance Services (A&AS & FFRDC Support)	C/Various	Various : San Antonio, TX	-	3.925	Oct 2020	-		-		-		-	0.000	3.925	-
<b>Subtotal</b>			-	3.925		-		-		-		-	0.000	3.925	N/A

			Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>			-	8.378	-	-	-	-	0.000	8.378	N/A

**Remarks**  
 In FY2022, PE 0208087F, Distributed Cyber Warfare Operations, Project 674541, Cyber Tech Projects - Platforms efforts were transferred to PE 0208087F, Distributed Cyber Warfare Operations, Project 674543, AF Offensive Cyber Operations, to consolidate prototyping and development of offensive cyber operations capabilities.

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2023 Air Force		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	<b>Project (Number/Name)</b> 674541 / <i>Cyber Tech Projects - Platforms</i>

	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
	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

<b>Cyber Mission Platform (CMP)</b>	
CMP-H (Incrementally Delivered Each Quarter)	██████████
Build Infrastructure Tracking System (BITS)	██████████

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Air Force		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	<b>Project (Number/Name)</b> 674541 / <i>Cyber Tech Projects - Platforms</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Cyber Mission Platform (CMP)</b>				
CMP-H (Incrementally Delivered Each Quarter)	1	2021	4	2021
Build Infrastructure Tracking System (BITS)	1	2021	4	2021

**Note**

In FY2022, PE 0208087F, Distributed Cyber Warfare Operations, Project 674541, Cyber Tech Projects - Platforms efforts were transferred to PE 0208087F, Distributed Cyber Warfare Operations, Project 674543, AF Offensive Cyber Operations, to consolidate prototyping and development of offensive cyber operations capabilities.

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

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	<b>Project (Number/Name)</b> 674542 / <i>Cyber Tech Projects - Access/Infrastructure</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
674542: <i>Cyber Tech Projects - Access/Infrastructure</i>	-	15.550	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	15.550
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

**Note**

In FY2022, PE 0208087F, Distributed Cyber Warfare Operations, Project 674542, Cyber Tech Projects - Access/Infrastructure efforts were transferred to PE 0208087F, Distributed Cyber Warfare Operations, Project 674543, AF Offensive Cyber Operations, to consolidate prototyping and development of offensive cyber operations capabilities.

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

Distributed Cyber Warfare Operations (DCWO) conducts Research, Development, Testing and Evaluation (RDT&E) leading to operations-ready cyberspace superiority capabilities including the transition of efforts from laboratory, industry, and academia via studies, accelerated prototyping, and technology demonstrations. DCWO consists of a portfolio of programs and projects providing the rapid acquisition of operational cyber capabilities. DCWO effectiveness comes from balancing funding among three capability thrust areas required for cyber warfare operations: Air Force Platforms, Access and Payloads. The DCWO portfolio provides capabilities by combining these three areas to provide cyber effects to Combatant Commanders. Cyber access capabilities enables a variety of DCWO missions and projects encompass hardware and software development.

The Access capability provides connectivity and required infrastructure by leveraging industry and other Government/non-Government mission partners' applications and programs.

Some aspects of the effort are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6614.

This program element may include necessary emergent or unanticipated civilian pay expenses required to manage, execute, and deliver Air Force Distributed Cyber Warfare Operations for emergent or unanticipated 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, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY21 0.0M was expended for civilian pay expenses in this program element, and in FY22 0.0M is forecasted for civilian pay expenses in this program element.

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

	FY 2021	FY 2022	FY 2023
<b>Title:</b> Access	15.550	0.000	0.000
<b>Description:</b> The Access capability provides connectivity and required infrastructure by leveraging industry and other Government/non-Government mission partners' applications and programs.			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	<b>Project (Number/Name)</b> 674542 / <i>Cyber Tech Projects - Access/Infrastructure</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
- Some aspects of the effort are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6614.			
<b>FY 2022 Plans:</b> Refer to Project Number 674543. - FY21 was last year to use Project# 674542. Project# 674542 was consolidated to New Project# 674543 starting in FY22.			
<b>FY 2023 Plans:</b> Refer to Project Number 674543. - FY21 was last year to use Project# 674542. Project# 674542 was consolidated to New Project# 674543 starting in FY22.			
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> N/A			
<b>Accomplishments/Planned Programs Subtotals</b>	15.550	0.000	0.000

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u> <u>Base</u>	<u>FY 2023</u> <u>OCO</u>	<u>FY 2023</u> <u>Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPAF 03 Line Item 834320: <i>C3 Countermeasures</i>	18.782	0.000	0.000	-	0.000	0.000	0.000	0.000	-	0.000	18.782

**Remarks**

**D. Acquisition Strategy**

The Distributed Cyber Warfare Operations program office will utilize Concept, Development, Risk Management, Production, or Deployment Plans as part of a streamlined approach to 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. Distributed Cyber Warfare Operations will utilize 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)), and 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 be able to meet many requirements related to Offensive Cyberspace Operations. These multiple-award contractual vehicles have already met the statutory requirements of the 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 2023 Air Force												Date: April 2022			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
3600 / 7				PE 0208087F / Distributed Cyber Warfare Operations				674542 / Cyber Tech Projects - Access/Infrastructure							
Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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
Access Development	Various	Various : Various	-	11.534	Nov 2020	-		-		-		-	0.000	11.534	-
<b>Subtotal</b>			-	11.534		-		-		-		-	0.000	11.534	N/A
Support (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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 - Access Development	TBD	USAF : Hanscom AFB, MA	-	1.600	Oct 2020	-		-		-		-	0.000	1.600	-
<b>Subtotal</b>			-	1.600		-		-		-		-	0.000	1.600	N/A
Test and Evaluation (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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
Access Test and Evaluation	PO	47 CTS : San Antonio, TX	-	0.255	Dec 2020	-		-		-		-	0.000	0.255	-
<b>Subtotal</b>			-	0.255		-		-		-		-	0.000	0.255	N/A
Management Services (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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
PSC - Acquisition Support (Various)	Various	Various : San Antonio, TX	-	2.161	Oct 2020	-		-		-		-	0.000	2.161	-
<b>Subtotal</b>			-	2.161		-		-		-		-	0.000	2.161	N/A
<b>Project Cost Totals</b>			-	15.550		-		-		-		-	0.000	15.550	N/A

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2023 Air Force							<b>Date:</b> April 2022			
<b>Appropriation/Budget Activity</b> 3600 / 7			<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>			<b>Project (Number/Name)</b> 674542 / <i>Cyber Tech Projects - Access/Infrastructure</i>				
	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>	

**Remarks**  
 In FY2022, PE 0208087F, Distributed Cyber Warfare Operations, Project 674542, Cyber Tech Projects - Access/Infrastructure efforts were transferred to PE 0208087F, Distributed Cyber Warfare Operations, Project 674543, AF Offensive Cyber Operations, to consolidate prototyping and development of offensive cyber operations capabilities.

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2023 Air Force		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	<b>Project (Number/Name)</b> 674542 / <i>Cyber Tech Projects - Access/Infrastructure</i>

	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
	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
<b>Hydra - AF Unique Access</b>																												
Development	██████████																											
<b>Next-Gen Network Attack</b>																												
Development	██████████																											
<b>Coral Series - AF Infrastructure</b>																												
Development	██████████																											

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Air Force		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	<b>Project (Number/Name)</b> 674542 / <i>Cyber Tech Projects - Access/Infrastructure</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Hydra - AF Unique Access</i></b>				
Development	1	2021	4	2021
<b><i>Next-Gen Network Attack</i></b>				
Development	1	2021	4	2021
<b><i>Coral Series - AF Infrastructure</i></b>				
Development	1	2021	4	2021

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Air Force										<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 3600 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>				<b>Project (Number/Name)</b> 674543 / <i>AF Offensive Cyber Operations</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
674543: <i>AF Offensive Cyber Operations</i>	-	0.000	72.487	76.592	0.000	76.592	37.199	24.378	26.850	27.445	0.000	264.951
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

In FY2022, PE 0208087F, Distributed Cyber Warfare Operations, Project 674540, Cyber Tech Products - Payloads; Project 674541, Cyber Tech Projects - Platforms; and Project 674542, Cyber Tech Projects - Access/Infrastructure efforts were all transferred to PE 0208087F, Distributed Cyber Warfare Operations, Project 674543, AF Offensive Cyber Operations, to consolidate prototyping and development of offensive cyber operations capabilities.

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

Distributed Cyber Warfare Operations (DCWO) conducts Research, Development, Testing and Evaluation (RDT&E) leading to operations-ready cyberspace superiority capabilities including the transition of efforts from laboratory, industry, and academia via studies, accelerated prototyping, and technology demonstrations. DCWO consists of a portfolio of programs and projects providing the rapid acquisition of operational cyber capabilities. DCWO effectiveness comes from balancing funding among three capability thrust areas required for cyber warfare operations: Air Force Platforms, Access and Payloads. The DCWO portfolio provides capabilities by combining these three areas to provide cyber effects to Combatant Commanders.

The platform capability provides user interface and controls, the access/infrastructure capability provides connectivity and the payloads capability develops and fields cyber tools and payloads all leveraging industry and other Government/non-Government mission partnered applications and programs.

Some aspects of the effort are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6614.

This program element may include necessary emergent or unanticipated civilian pay expenses required to manage, execute, and deliver Air Force Distributed Cyber Warfare Operations for emergent or unanticipated 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, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY21 0.000M was expended for civilian pay expenses in this program element, and in FY22 1.420M is forecasted for civilian pay expenses in this program element.

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

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<b>Title:</b> AF Cyber Mission Platform (CMP)	0.000	16.767	11.170
<b>Description:</b> The Cyber Mission Platform (CMP) program is an ACAT III program of record that provides a modular, configurable framework for Cyber Operations. 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. CMP develops capability enhancements			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	<b>Project (Number/Name)</b> 674543 / <i>AF Offensive Cyber Operations</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<p>on a regular cadence and delivers them to operations based on operational need and acceptance timelines. The program office is posturing to work R&amp;D efforts on core capabilities for one more year and then transition those capabilities to sustainment. The platform program office will conduct development activities to integrate a new architecture that supports particular DCWO mission threads that are needed by the Air Force. The new architecture to be integrated is coined CUBE (Converging Universal Battlespace Enabler).</p> <p>Some aspects of the effort are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6614.</p> <p><b>FY 2022 Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue enhancements to the CMP Platform to satisfy prioritized requirements from USAF Distributed Cyber Warfare Operations Mission Threads.</li> <li>- Continue to execute a continuous delivery program structure.</li> </ul> <p><b>FY 2023 Plans:</b></p> <ul style="list-style-type: none"> <li>- Will continue enhancements to the CMP Platform to satisfy prioritized requirements from USAF Distributed Cyber Warfare Operations Mission Threads.</li> <li>- Will continue to execute a continuous delivery program structure.</li> <li>- Will develop the Converging Universal Battlespace Enabler (CUBE) for specific USAF Distributed Cyber Warfare Operations.</li> </ul> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b></p> <ul style="list-style-type: none"> <li>- Funding decrease due to requirements transfer of the Joint Cyberspace Access Program to the Army.</li> </ul>				
<p><b>Title:</b> Access/Infrastructure</p> <p><b>Description:</b> The Access capability provides connectivity and required infrastructure by leveraging industry and other Government/non-Government mission partners' applications and programs.</p> <ul style="list-style-type: none"> <li>- Some aspects of the effort are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6614.</li> </ul> <p><b>FY 2022 Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue to develop Air Force unique connectivity and required infrastructures across multiple spectrums leveraging industry and other Government/non-Government mission partner's applications and programs.</li> </ul>		0.000	14.574	21.602

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	<b>Project (Number/Name)</b> 674543 / <i>AF Offensive Cyber Operations</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<p>- Continue to develop and transition Offensive Cyber Operations (OCO) quick reaction capabilities for next-generation DCWO weapon system supporting requirements from DCWO Mission Threads.</p> <p><b>FY 2023 Plans:</b></p> <p>- Will continue to develop Air Force unique connectivity and required infrastructures across multiple spectrums leveraging industry and other Government/non-Government mission partner's applications and programs.</p> <p>- Will continue to develop and transition Offensive Cyber Operations (OCO) quick reaction capabilities for next-generation DCWO weapon system supporting requirements from DCWO Mission Threads.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b></p> <p>- Funding increase is due to additional data analytic tools requirements.</p>				
<p><b>Title:</b> Payloads</p> <p><b>Description:</b> The payloads capability develops and fields cyber tools and payloads leveraging industry and other Government/non-Government mission partnered applications and programs.</p> <p>This project includes 37.346M associated with USCYBERCOM foundation tools and will be funded by USCYBERCOM in FY24. FY23 is the last FY for the Air Force to fund USCYBERCOM foundational tools out of 0208087F.</p> <p>- Some aspects of the effort are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6614.</p> <p><b>FY 2022 Plans:</b></p> <p>- Continue the development of cyber tools and exploits by leveraging industry and other government/non-Government mission partnered developed applications and programs.</p> <p>- Will continue to expand USCYBERCOM-funded efforts to produce prioritized family of foundational tools.</p> <p><b>FY 2023 Plans:</b></p> <p>- Will continue the development of cyber tools and exploits by leveraging industry and other government/non-Government mission partnered developed applications and programs.</p> <p>- Will continue to expand USCYBERCOM-funded efforts to produce prioritized family of foundational tools.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b></p> <p>- Funding increased due to inflationary adjustment.</p>		0.000	41.146	43.820
<b>Accomplishments/Planned Programs Subtotals</b>		0.000	72.487	76.592

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	<b>Project (Number/Name)</b> 674543 / <i>AF Offensive Cyber Operations</i>

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

<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2023</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To</u>	
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	<u>Total Cost</u>
• OPAF 03 Line Item 834320: <i>C3 Countermeasures</i>	0.000	16.848	29.051	-	29.051	25.216	12.068	2.885	2.961	0.000	89.029

**Remarks**

In FY2022, PE 0208087F, Distributed Cyber Warfare Operations, Project 674540, Cyber Tech Products - Payloads; Project 674541, Cyber Tech Projects - Platforms; and Project 674542, Cyber Tech Projects - Access/Infrastructure efforts were all transferred to PE 0208087F, Distributed Cyber Warfare Operations, Project 674543, AF Offensive Cyber Operations, to consolidate prototyping and development of offensive cyber operations capabilities.

**D. Acquisition Strategy**

The Distributed Cyber Warfare Operations program office will utilize Concept, Development, Risk Management, Production, or Deployment Plans as part of a streamlined approach to 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. Distributed Cyber Warfare Operations will utilize 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)), and 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 be able to meet many requirements related to Offensive Cyberspace Operations. These multiple-award contractual vehicles have already met the statutory requirements of the 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 2023 Air Force												Date: April 2022			
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							
<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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
Platform Development	Various	Various : Various	-	-		12.500	Nov 2021	7.640	Nov 2022	-		7.640	Continuing	Continuing	-
Access Development	Various	Various : Various	-	-		11.476	Nov 2021	18.025	Nov 2022	-		18.025	Continuing	Continuing	-
Payload Development	Various	Various : Various	-	-		34.329	Nov 2021	36.020	Nov 2022	-		36.020	Continuing	Continuing	-
<b>Subtotal</b>			-	-		58.305		61.685		-		61.685	Continuing	Continuing	N/A
<b>Support (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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	TBD	USAF : Hanscom AFB, MA	-	-		1.420	Oct 2021	2.400	Oct 2022	-		2.400	Continuing	Continuing	-
<b>Subtotal</b>			-	-		1.420		2.400		-		2.400	Continuing	Continuing	N/A
<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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	-	-		3.100	Dec 2021	2.827	Dec 2022	-		2.827	Continuing	Continuing	-
<b>Subtotal</b>			-	-		3.100		2.827		-		2.827	Continuing	Continuing	N/A
<b>Management Services (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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
PSC - Acquisition Support (Various)	Various	Various : San Antonio, TX	-	-		9.662	Nov 2021	9.680	Nov 2022	-		9.680	Continuing	Continuing	-
<b>Subtotal</b>			-	-		9.662		9.680		-		9.680	Continuing	Continuing	N/A

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2023 Air Force</b>								<b>Date: April 2022</b>			
<b>Appropriation/Budget Activity</b> 3600 / 7				<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>				<b>Project (Number/Name)</b> 674543 / <i>AF Offensive Cyber Operations</i>			
	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>		<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>	
<b>Project Cost Totals</b>	-	-	72.487		76.592	-	76.592	Continuing	Continuing	N/A	

**Remarks**  
 In FY2022, PE 0208087F, Distributed Cyber Warfare Operations, Project 674540, Cyber Tech Products - Payloads, Project 674541, Cyber Tech Projects - Platforms, and Project 674542, Cyber Tech Projects - Access/Infrastructure efforts were transferred to PE 0208087F, Distributed Cyber Warfare Operations, Project 674543, AF Offensive Cyber Operations, to consolidate prototyping and development of offensive cyber operations capabilities.

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2023 Air Force		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	<b>Project (Number/Name)</b> 674543 / <i>AF Offensive Cyber Operations</i>

FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
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

<b>Cyber Mission Platform (CMP)</b>	
CMP-H (Incrementally Delivered Each Quarter)	
Build Infrastructure Tracking System (BITS)	
<b>Access/Infrastructure</b>	
Hydra - AF Unique Access	
Next-Gen Network Attack	
Data Analytics	
<b>Payloads</b>	
Payloads - Neptune Rumble	
Payloads - Saturn Crash	

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Air Force		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	<b>Project (Number/Name)</b> 674543 / <i>AF Offensive Cyber Operations</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Cyber Mission Platform (CMP)</b>				
CMP-H (Incrementally Delivered Each Quarter)	1	2022	4	2027
Build Infrastructure Tracking System (BITS)	1	2022	3	2022
<b>Access/Infrastructure</b>				
Hydra - AF Unique Access	1	2022	4	2027
Next-Gen Network Attack	1	2022	4	2027
Data Analytics	1	2022	4	2027
<b>Payloads</b>				
Payloads - Neptune Rumble	1	2022	4	2027
Payloads - Saturn Crash	1	2022	3	2022

**Note**

Cyber Mission Platform (Delivers increments on a quarterly frequency)

**Access/Infrastructures:**

- Access projects are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6614.

**Payloads**

- Neptune Rumble and Saturn Crash each develop payloads against a specific series of targets.

- Payload projects are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6614.