

# UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force										Date: February 2019		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0208087F I Distributed Cyber Warfare Operations							
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	-	38.241	40.168	35.178	0.000	35.178	33.620	33.678	34.292	46.897	Continuing	Continuing
670375: Network Warfare Systems and Support	-	38.241	40.168	0.000	0.000	0.000	0.000	0.000	0.000	11.428	Continuing	Continuing
674540: Cyber Tech Products - Payloads	-	0.000	0.000	6.615	0.000	6.615	7.110	7.053	6.579	6.805	Continuing	Continuing
674541: Cyber Tech Projects - Platforms	-	0.000	0.000	10.054	0.000	10.054	10.268	10.713	10.743	11.112	Continuing	Continuing
674542: Cyber Tech Projects - Access/Infrastructure	-	0.000	0.000	18.509	0.000	18.509	16.242	15.912	16.970	17.552	Continuing	Continuing

## Note

PE 0208087F, Distributed Cyber Warfare Operations, changed from AF Offensive Cyber Operations.

## A. Mission Description and Budget Item Justification

Distributed Cyber Warfare Operations (DCWO) provides advanced offensive cyber warfare capabilities to the 24th 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 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).

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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 civilian pay expenses required to manage, execute, and deliver Air Force Distributed Cyber Warfare Operations capabilities. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, 0605898F, and 0605833F.						
As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.						
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget		39.693	40.526	35.178	0.000	35.178
Current President's Budget		38.241	40.168	35.178	0.000	35.178
Total Adjustments		-1.452	-0.358	0.000	0.000	0.000
• Congressional General Reductions		0.000	-0.358			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		-1.452	0.000			
• Other Adjustments		0.000	0.000	0.000	0.000	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force										Date: February 2019		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0208087F / Distributed Cyber Warfare Operations				Project (Number/Name) 670375 / Network Warfare Systems and Support			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
670375: Network Warfare Systems and Support	-	38.241	40.168	0.000	0.000	0.000	0.000	0.000	0.000	11.428	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

## Note

In FY20, PE 0208087F, Distributed Cyber Warfare Operations, Project 670375, Network Warfare Systems and Support efforts were distributed to PE 0208087F, Distributed Cyber Warfare Operations, Project 674540, Cyber Tech Projects - Payloads, Project 674541, Platforms, and Project 674542, Cyber Tech Projects - Access/Infrastructure in order to provide additional clarity and structure to the Distributed Cyber Warfare Operations portfolio.

## 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 in these three areas that when tied together provide cyber effects to Combatant Commanders.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver Air Force Distributed Cyber Warfare Operations capabilities. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, 0605898F, and 0605833F.

Some aspects of the effort are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6653.

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

	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<b>Title:</b> Platforms	18.925	16.803	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 a regular cadence and delivers them to operations based on operational need and acceptance timelines. The platform major thrust also includes platform integration development activities necessary to integrate CMP into DCWO mission threads.			
<b>FY 2019 Plans:</b>			

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Appropriation/Budget Activity 3600 / 7		R-1 Program Element (Number/Name) PE 0208087F / Distributed Cyber Warfare Operations	Project (Number/Name) 670375 / Network Warfare Systems and Support		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2018	FY 2019	FY 2020
<p>- Continue enhancements to the CMP Platform and other platform components to satisfy prioritized requirements from USAF Offensive Cyber Operations Mission Threads.</p> <p>- Execute an approved FY18 NDAA Pilot Program for Agile Software Development.</p> <p>- At a minimum, conduct delta accreditation and fielding of CMP Increment 2 Build 3 and Build 4. More frequent deliveries will be based on user demand.</p> <p>- Transition from 6 month delivery Builds to a Continuous Delivery program structure.</p> <p><b>FY 2020 Plans:</b> N/A</p> <p><b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> - Funding decreased due to transfer to Project 674541, Cyber Tech Projects - Platforms</p>					
<p><b>Title:</b> Access</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> <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, 210-925-6653.</p> <p><b>FY 2019 Plans:</b> - 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>- Continue to develop and transition OCO quick reaction capabilities for next-generation OCO weapon system supporting requirements from USAF Offensive Cyber Operations Mission Threads.</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, 210-925-6653.</p> <p><b>FY 2020 Plans:</b></p>			14.827	20.123	0.000

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B. Accomplishments/Planned Programs (\$ in Millions)								FY 2018	FY 2019	FY 2020	
N/A											
FY 2019 to FY 2020 Increase/Decrease Statement: - Funding decreased due to transfer to Project 674542, Cyber Tech Projects - Access/Infrastructure											
Title: Payloads  Description: 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, 210-925-6653.  FY 2019 Plans: - Continue the development of cyber tools and payloads by leveraging industry and other Government/non-Government mission partnered developed applications and programs.  - Continue to develop and transition cyber tool and payload quick reaction capabilities for current and next-generation OCO weapon systems supporting requirements from USAF OCO 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, 210-925-6653.  FY 2020 Plans: N/A  FY 2019 to FY 2020 Increase/Decrease Statement: - Funding decreased due to transfer to Project 674540, Cyber Tech Projects - Payloads								4.489	3.242	0.000	
Accomplishments/Planned Programs Subtotals								38.241	40.168	0.000	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
• OPAF 03 Line Item 834320: C3 Countermeasures	16.990	23.931	-	-	-	-	-	-	-	0.000	40.921

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Appropriation/Budget Activity 3600 / 7			R-1 Program Element (Number/Name) PE 0208087F / Distributed Cyber Warfare Operations				Project (Number/Name) 670375 / Network Warfare Systems and Support				
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
• OPAF 03 Line Item 834010: <i>General Information Technology</i>	8.781	0.000	-	-	-	-	-	-	-	0.000	8.781
• OPAF 03 Line Item 831010: <i>COMSEC Equipment</i>	0.000	0.070	-	-	-	-	-	-	-	0.000	0.070
Remarks											
D. Acquisition Strategy											
<p>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.</p>											
E. Performance Metrics											
<p>Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.</p>											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force												Date: February 2019			
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0208087F / <i>Distributed Cyber Warfare Operations</i>				Project (Number/Name) 670375 / <i>Network Warfare Systems and Support</i>					
Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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	Various	Various : Various	-	16.684	Dec 2017	14.028	Nov 2018	-		-		-	Continuing	Continuing	-
Access/Infrastructure	Various	Various : Various	-	12.202	Jan 2018	17.229	Jan 2019	-		-		-	Continuing	Continuing	-
Payloads	Various	Various : Various	-	2.583	Jan 2018	0.924	Jan 2019	-		-		-	Continuing	Continuing	-
Subtotal			-	31.469		32.181		-		-		-	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
Platforms	MIPR	47 CTS : San Antonio, TX	-	0.576	Feb 2018	0.694	Dec 2018	-		-		-	Continuing	Continuing	-
Access/Infrastructure	MIPR	47 CTS : San Antonio, TX	-	0.191	Jul 2018	0.407	Dec 2018	-		-		-	Continuing	Continuing	-
Payloads	MIPR	Various : San Antonio, TX	-	0.378	Jun 2018	0.000		-		-		-	Continuing	Continuing	-
Subtotal			-	1.145		1.101		-		-		-	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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 - Advisory & Assistance Services (A&AS & FFRDC Support) - Platforms	C/Various	Various : San Antonio, TX	-	1.665	Jan 2018	2.081	Oct 2018	-		-		-	Continuing	Continuing	-
PSC - Acquisition Support - Access	C/Various	Various : San Antonio, TX	-	2.435	Oct 2017	2.486	Oct 2018	-		-		-	Continuing	Continuing	-
PSC - Engineering & Technical Assistance Support Services (ETASS & FFRDC) - Payloads	C/FFP	Various : San Antonio, TX	-	1.527	Sep 2018	2.319	Apr 2018	-		-		-	Continuing	Continuing	-

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2020 Air Force												<b>Date:</b> February 2019		
<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> 670375 / <i>Network Warfare Systems and Support</i>				

  

Management Services (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
<b>Subtotal</b>			-	5.627		6.886		-		-		-	Continuing	Continuing	N/A

  

	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	-	38.241	40.168	-	-	-	Continuing	Continuing	N/A

  

**Remarks**



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2020 Air Force			<b>Date:</b> February 2019		
<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> 670375 / <i>Network Warfare Systems and Support</i>

	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	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>Platform</b>																												
CMP Development Increment 2 Build 1																												
CMP Development Increment 2 Build 2																												
CMP Development Increment 2 Build 3																												
CMP Development Increment 2 Build 4																												
CMP Continuous Delivery per Section 874 Pilot Program Plan																												
Platform Integration																												
<b>Access</b>																												
AF Unique Access																												
Next-Gen OCO WS																												
DCWO Infrastructure Development																												
<b>Payloads</b>																												
Payload Development																												
Corner Series Development																												
Tools Development																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2020 Air Force			<b>Date:</b> February 2019
<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> 670375 / <i>Network Warfare Systems and Support</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Platform</b>				
CMP Development Increment 2 Build 1	1	2018	1	2018
CMP Development Increment 2 Build 2	1	2018	3	2018
CMP Development Increment 2 Build 3	3	2018	1	2019
CMP Development Increment 2 Build 4	1	2019	2	2019
CMP Continuous Delivery per Section 874 Pilot Program Plan	3	2019	4	2019
Platform Integration	1	2018	4	2019
<b>Access</b>				
AF Unique Access	2	2018	4	2019
Next-Gen OCO WS	3	2018	4	2019
DCWO Infrastructure Development	1	2018	4	2019
<b>Payloads</b>				
Payload Development	1	2018	4	2019
Corner Series Development	1	2018	4	2019
Tools Development	1	2018	4	2019

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Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0208087F / Distributed Cyber Warfare Operations				Project (Number/Name) 674540 / Cyber Tech Products - Payloads			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
674540: Cyber Tech Products - Payloads	-	0.000	0.000	6.615	0.000	6.615	7.110	7.053	6.579	6.805	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

## Note

In FY20, PE 0208087F, Distributed Cyber Warfare Operations, Project 670375, Network Warfare Systems and Support payload efforts were transferred to PE 0208087F, Distributed Cyber Warfare Operations, Project 674540, Cyber Tech Projects - Payloads, in order to provide additional clarity and structure to the Distributed Cyber Warfare Operations portfolio.

## 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 in these three areas that when tied together provide cyber effects to Combatant Commanders. Cyber payload capabilities are required to have 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.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver Air Force Distributed Cyber Warfare Operations capabilities. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, 0605898F, and 0605833F.

- Some aspects of the effort are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6653.

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

	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<b>Title:</b> Payloads	0.000	0.000	6.615
<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.			

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Appropriation/Budget Activity 3600 / 7				R-1 Program Element (Number/Name) PE 0208087F / Distributed Cyber Warfare Operations				Project (Number/Name) 674540 / Cyber Tech Products - Payloads				
<b>B. Accomplishments/Planned Programs (\$ in Millions)</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, 210-925-6653.  <b>FY 2019 Plans:</b> N/A  <b>FY 2020 Plans:</b> - Will continue the development of cyber tools and payloads by leveraging industry and other government/non-Government mission partnered developed applications and programs.  - Will continue the development and transition of cyber tool and payload quick reaction capabilities for current and next-generation DCWO weapon systems supporting requirements from 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, 210-925-6653.  <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> - Funding increased due to relative operational priorities between DCWO efforts.										FY 2018	FY 2019	FY 2020
<b>Accomplishments/Planned Programs Subtotals</b>										0.000	0.000	6.615
<b>C. Other Program Funding Summary (\$ in Millions)</b>												
Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost	
• OPAF 03 834320: C3 Countermeasures	0.000	0.000	2.939	-	2.939	2.811	2.550	2.595	7.751	Continuing	Continuing	
<b>Remarks</b>												
<b>D. Acquisition Strategy</b> 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												

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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) 674540 / <i>Cyber Tech Products - Payloads</i>

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.

**E. Performance Metrics**

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force												Date: February 2019			
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0208087F / Distributed Cyber Warfare Operations				Project (Number/Name) 674540 / Cyber Tech Products - Payloads					
Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
Payload Development	Various	Various : Various	-	-		-		4.346	Nov 2019	-		4.346	Continuing	Continuing	-
Subtotal			-	-		-		4.346		-		4.346	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
Payload Test and Evaluation	MIPR	47 CTS : San Antonio, TX	-	-		-		0.200	Dec 2019	-		0.200	Continuing	Continuing	-
Subtotal			-	-		-		0.200		-		0.200	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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 - Engineering & Technical Assistance Support Services (Various))	C/FFP	Various : San Antonio, TX	-	-		-		2.069	Apr 2020	-		2.069	Continuing	Continuing	-
Subtotal			-	-		-		2.069		-		2.069	Continuing	Continuing	N/A
			Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		0.000		6.615		-		6.615	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2020 Air Force												Date: February 2019			
Appropriation/Budget Activity 3600 / 7								R-1 Program Element (Number/Name) PE 0208087F / Distributed Cyber Warfare Operations				Project (Number/Name) 674540 / Cyber Tech Products - Payloads			

	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	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
Payload Development																												
Payloads Development																												
Corner Series Development																												
Tools Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force		Date: February 2019
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208087F / Distributed Cyber Warfare Operations	Project (Number/Name) 674540 / Cyber Tech Products - Payloads

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Payload Development</i></b>				
Payloads Development	1	2020	4	2024
Corner Series Development	1	2020	4	2024
Tools Development	1	2020	4	2024



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Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force										Date: February 2019		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0208087F / Distributed Cyber Warfare Operations				Project (Number/Name) 674541 / Cyber Tech Projects - Platforms			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
674541: Cyber Tech Projects - Platforms	-	0.000	0.000	10.054	0.000	10.054	10.268	10.713	10.743	11.112	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

## Note

In FY20, PE 0208087F, Distributed Cyber Warfare Operations, Project 670375, Network Warfare Systems and Support platform efforts were transferred to PE 0208087F, Distributed Cyber Warfare Operations, Project 674541, Platforms, in order to provides additional clarity and structure to the Distributed Cyber Warfare Operations portfolio.

## 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 in these three areas that when tied together 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.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver Air Force Distributed Cyber Warfare Operations capabilities. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, 0605898F, and 0605833F.

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

	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<b>Title:</b> Platforms	0.000	0.000	10.054
<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 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.			
<b>FY 2019 Plans:</b>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2020 Air Force								<b>Date:</b> February 2019			
<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 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
N/A  <b>FY 2020 Plans:</b> - Will continue enhancements to the CMP Platform to satisfy prioritized requirements from USAF Distributed Cyber Warfare Operations Mission Threads.  - Will continue to conduct delta accreditation and fielding of updated CMP software.  - Will continue to execute a continuous delivery program structure.  <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> - Funding decreased due to relative operational priorities between DCWO efforts.			
<b>Accomplishments/Planned Programs Subtotals</b>	0.000	0.000	10.054

  

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u> <u>Base</u>	<u>FY 2020</u> <u>OCO</u>	<u>FY 2020</u> <u>Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPAF 03 834320: <i>C3 Countermeasures</i>	0.000	0.000	14.944	-	14.944	14.296	12.967	13.197	39.417	Continuing	Continuing
• OPAF 03 831010: <i>Comsec Equipment</i>	0.000	0.000	2.790	-	2.790	-	-	-	-	2.790	5.580

  

**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-2A, RDT&E Project Justification: PB 2020 Air Force		Date: February 2019
<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>

### E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force												Date: February 2019			
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0208087F / Distributed Cyber Warfare Operations				Project (Number/Name) 674541 / Cyber Tech Projects - Platforms					
Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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	C/Various	Various : Various	-	-		-		6.969	Nov 2019	-		6.969	Continuing	Continuing	-
Subtotal			-	-		-		6.969		-		6.969	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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 Test and Evaluation	MIPR	47 CTS : San Antonio, TX	-	-		-		0.750	Dec 2019	-		0.750	Continuing	Continuing	-
Subtotal			-	-		-		0.750		-		0.750	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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 - Advisory & Assistance Services (A&AS & FFRDC Support)	C/Various	Various : San Antonio, TX	-	-		-		2.335	Oct 2019	-		2.335	Continuing	Continuing	-
Subtotal			-	-		-		2.335		-		2.335	Continuing	Continuing	N/A
			Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		0.000		10.054		-		10.054	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2020 Air Force			Date: February 2019		
Appropriation/Budget Activity 3600 / 7		R-1 Program Element (Number/Name) PE 0208087F / Distributed Cyber Warfare Operations			Project (Number/Name) 674541 / Cyber Tech Projects - Platforms

	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	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
Platform Development																												
Cyber Mission Platform Continuous Delivery																												
Platform Integration																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force		Date: February 2019
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208087F / Distributed Cyber Warfare Operations	Project (Number/Name) 674541 / Cyber Tech Projects - Platforms

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Platform Development				
Cyber Mission Platform Continuous Delivery	1	2020	4	2024
Platform Integration	1	2020	4	2024

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force										Date: February 2019		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0208087F / Distributed Cyber Warfare Operations				Project (Number/Name) 674542 / Cyber Tech Projects - Access/Infrastructure			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
674542: Cyber Tech Projects - Access/Infrastructure	-	0.000	0.000	18.509	0.000	18.509	16.242	15.912	16.970	17.552	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note												
In FY20, PE 0208087F, Distributed Cyber Warfare Operations, Project 670375, Network Warfare Systems and Support access and infrastructure efforts were transferred to PE 0208087F, Distributed Cyber Warfare Operations, Project 674542, Cyber Tech Projects - Access/Infrastructure, in order to provide additional clarity and structure to the Distributed Cyber Warfare Operations portfolio.												
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 in these three areas that when tied together 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.												
This program element may include necessary civilian pay expenses required to manage, execute, and deliver Air Force Distributed Cyber Warfare Operations capabilities. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, 0605898F, and 0605833F.												
- Some aspects of the effort are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6653.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2018	FY 2019	FY 2020	
Title: Access									0.000	0.000	18.509	
Description: 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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Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force										Date: February 2019		
Appropriation/Budget Activity 3600 / 7				R-1 Program Element (Number/Name) PE 0208087F / Distributed Cyber Warfare Operations				Project (Number/Name) 674542 / Cyber Tech Projects - Access/Infrastructure				
<b>B. Accomplishments/Planned Programs (\$ in Millions)</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, 210-925-6653.  <b>FY 2019 Plans:</b> N/A  <b>FY 2020 Plans:</b> - 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.  - 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.  - Some aspects of the effort are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6653.  <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> - Funding decreased due to relative operational priorities between DCWO efforts.										FY 2018	FY 2019	FY 2020
<b>Accomplishments/Planned Programs Subtotals</b>										0.000	0.000	18.509
<b>C. Other Program Funding Summary (\$ in Millions)</b>												
Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost	
• OPAF 03 834320: C3 Countermeasures	0.000	0.000	7.154	-	7.154	6.843	6.207	6.318	18.869	Continuing	Continuing	
<b>Remarks</b>												
<b>D. Acquisition Strategy</b> 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												



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Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force		Date: February 2019
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208087F / <i>Distributed Cyber Warfare Operations</i>	Project (Number/Name) 674542 / <i>Cyber Tech Projects - Access/Infrastructure</i>

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.

### E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force												Date: February 2019			
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0208087F / <i>Distributed Cyber Warfare Operations</i>				Project (Number/Name) 674542 / <i>Cyber Tech Projects - Access/Infrastructure</i>					
Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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	-	-		-		13.386	Nov 2019	-		13.386	Continuing	Continuing	-
Subtotal			-	-		-		13.386		-		13.386	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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	MIPR	47 CTS : San Antonio, TX	-	-		-		0.760	Dec 2019	-		0.760	Continuing	Continuing	-
Subtotal			-	-		-		0.760		-		0.760	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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)	C/Various	Various : San Antonio, TX	-	-		-		4.363	Oct 2019	-		4.363	Continuing	Continuing	-
Subtotal			-	-		-		4.363		-		4.363	Continuing	Continuing	N/A
			Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		0.000		18.509		-		18.509	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2020 Air Force										Date: February 2019																			
Appropriation/Budget Activity 3600 / 7										R-1 Program Element (Number/Name) PE 0208087F / Distributed Cyber Warfare Operations										Project (Number/Name) 674542 / Cyber Tech Projects - Access/Infrastructure									

	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	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
Access Development																												
AF Unique Access																												
Next-Gen Offensive Cyber Operations Weapon System																												
DCWO Infrastructure Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force		Date: February 2019
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208087F / Distributed Cyber Warfare Operations	Project (Number/Name) 674542 / Cyber Tech Projects - Access/Infrastructure

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Access Development				
AF Unique Access	1	2020	4	2024
Next-Gen Offensive Cyber Operations Weapon System	1	2020	4	2024
DCWO Infrastructure Development	1	2020	4	2024