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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>					R-1 Program Element (Number/Name) PE 0305208BB / <i>Distributed Common Ground/Surface Systems</i>							
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	54.930	6.359	6.062	5.994	-	5.994	-	-	-	-	-	-
S400A: <i>Distributed Common Ground/Surface Systems</i>	54.930	6.359	6.062	5.994	-	5.994	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This program element is part of the Military Intelligence Program (MIP). The Distributed Common Ground/Surface System Special Operations Forces (DCGS-SOF) is part of a family of systems providing rapid fielding of Intelligence, Surveillance, and Reconnaissance (ISR) Processing, Exploitation, Dissemination (PED), and analytical capabilities at the Combatant Command (COCOM), Component/Theater Special Operations Commands (TSOC) level and below through a combination of reach back, forward support, and collaboration. The mission tailored infrastructure interconnects the warfighters, analysts, and sensors to find and fix High Value Targets and provides a network-enabled, interoperable construct allowing continual, unimpeded sharing of intelligence data, information and services with SOF and between the Services, national intelligence agencies, combatant commands and multi-national partners. It connects the SOF warfighters and analysts with essential intelligence information and provides situational awareness information to SOF leadership at all echelons. The two components of DCGS-SOF include the following: Enterprise/All Source Information Fusion (ENT/ASIF) provides infrastructure, processing, and intelligence analytical tools to allow for worldwide SOF intelligence information sharing via a globally connected cloud based architecture as well as a forward disconnected capability. SOF Geospatial Intelligence Processing, Exploitation, and Dissemination (SGIP) provides capabilities in garrison and deployed environments for the PED of manned and unmanned sensors. These technologies will be pursued via rapid prototyping efforts when appropriate.

B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	6.359	6.066	6.179	-	6.179
Current President's Budget	6.359	6.062	5.994	-	5.994
Total Adjustments	0.000	-0.004	-0.185	-	-0.185
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-0.004			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	-0.185	-	-0.185

Change Summary Explanation

Funding:

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0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> / BA 7: <i>Operational Systems Development</i>	PE 0305208BB / <i>Distributed Common Ground/Surface Systems</i>

FY 2020: None.

FY 2021: Decrease of \$0.004 million is due to a Defense Wide (DW) non-programmatic reduction.

FY 2022: Decrease of \$0.185 million is due to a transfer of Silent Dagger (SDAG) funds into PE 1160405BB/Intelligence Systems.

Schedule: None.

Technical: None.

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command										Date: May 2021		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 0305208BB / <i>Distributed Common Ground/Surface Systems</i>				Project (Number/Name) S400A / <i>Distributed Common Ground/Surface Systems</i>			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
S400A: <i>Distributed Common Ground/Surface Systems</i>	54.930	6.359	6.062	5.994	-	5.994	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This program element is part of the Military Intelligence Program (MIP). The Distributed Common Ground/Surface System Special Operations Forces (DCGS-SOF) is part of a family of systems providing rapid fielding of Intelligence, Surveillance, and Reconnaissance (ISR) Processing, Exploitation, Dissemination (PED), and analytical capabilities at the Combatant Command (COCOM), Component/Theater Special Operations Commands (TSOC) level and below through a combination of reach back, forward support, and collaboration. The mission tailored infrastructure interconnects the warfighters, analysts, and sensors to find and fix High Value Targets and provides a network-enabled, interoperable construct allowing continual, unimpeded sharing of intelligence data, information and services with SOF and between the Services, national intelligence agencies, combatant commands and multi-national partners. It connects the SOF warfighters and analysts with the essential intelligence information and provides situational awareness information to SOF leadership at all echelons. The two components of DCGS-SOF include the following: Enterprise/All Source Information Fusion (ENT/ASIF) provides infrastructure, processing, and intelligence analytical tools to allow for worldwide SOF intelligence information sharing via a globally connected cloud based architecture as well as a forward disconnected capability. SOF Geospatial Intelligence Processing, Exploitation, and Dissemination (SGIP) provides capabilities in garrison and deployed environments for the PED of manned and unmanned sensors. These technologies will be pursued via rapid prototyping efforts when appropriate.

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

	FY 2020	FY 2021	FY 2022
Title: DCGS	6.359	6.062	5.994
Description: DCGS-SOF is composed of two major components: Enterprise/ASIF and SGIP. DCGS-SOF develops and integrates SOF networks providing USSOCOM with unique decision capabilities to include: measurement and signature data, sensor exploitation, data compressions and man-portable workstations. DCGS-SOF provides the supporting architecture to link the Global Sensor Network to those who will interpret the data for rapid transmission to collaborative partners via the SOF Information Environment (SIE).			
FY 2021 Plans: Continue technology development, integration of emerging technologies and capabilities enhancements for DCGS-SOF ENT/ASIF requirements including but not limited to: Advanced analytics, User Interfaces (UI), cloud computing, machine learning, and disconnected operations capability. Continue technology development, and testing and integration of emerging technologies for SGIP. Continue DCGS-SOF Limited Objective Events and exercise participation to test integration of emerging technologies			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
and obtain user feedback of items in development. Continue interoperability improvements with Coalition partners, Defense Intelligence Information Enterprise (DI2E) framework and Joint Information Environment.			
FY 2022 Plans: Continues technology development, integration of emerging technologies and capabilities enhancements for DCGS-SOF ENT/ASIF requirements including but not limited to: Advanced analytics, User Interfaces (UI), cloud computing, machine learning, and disconnected operations capability. Continues technology development, testing and integration of emerging technologies for SGIP. Continues DCGS-SOF Limited Objective Events and exercise participation to test integration of emerging technologies and obtain user feedback of items in development. Continues tech development and integration of emerging technologies for SGIP.			
FY 2021 to FY 2022 Increase/Decrease Statement: Decrease of \$0.068 million is due to funding made available to support emerging critical Command requirements.			
Accomplishments/Planned Programs Subtotals	6.359	6.062	5.994

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC/020401INTL: <i>Distributed Common Ground/Surface System</i>	12.522	11.645	5.991	-	5.991	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

DCGS-SOF leverages SOF programs, DOD and Intelligence Community partners, National labs, and other Government Agencies to integrate Commercial Off The Shelf/Government Off The Shelf (COTS/GOTS), and other mature technologies into the Program of Record which will reside partially within the SOF Information Enterprise combined with Web-Client tools in a global cloud. These alliances enable more agile access to (searchable, discoverable) and sharing of larger data domains and services to meet SOF-peculiar documented requirements. The technology allows for seamless integration and federation with DOD, Interagency, and Coalition tactical Intelligence, Surveillance and Reconnaissance (ISR) PED systems. The DCGS-SOF program office employs an agile development process with capability insertions into the development baseline for assessment and future deployment into the operational baseline. All development requirements are prioritized through the DCGS Requirements Working Group (DRWG) chaired by United States Special Operations Command J2. Once approved, the requirements are evaluated and scheduled by engineering development teams. Using this methodology allows capabilities to be inserted in a fast and agile manner based on user requirements and priorities. All Evolutionary Technology Insertions (ETIs) in the R-4 schedule are based on current program office projections. If requirements change based on the DRWG, the ETI and version capabilities identified may change.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 United States Special Operations Command **Date:** May 2021

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Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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
Development and Integration - Enterprise / All Source Information Fusion (ENT/ASIF)	Various	Various : Various	12.995	1.459	Jul 2020	2.953	Jan 2021	3.732	Jan 2022	-		3.732	Continuing	Continuing	-
Capabilities Modernization - SOF Geospatial Intelligence Processing Exploitation, and Dissemination (SGIP)	Various	Various : Various	17.260	2.500	Jan 2020	0.730	Jan 2021	0.600	Jan 2022	-		0.600	Continuing	Continuing	-
Independent Verification and Validation - SOF Signals Intelligence Processing Exploitation, and Dissemination (SOF SIGINT PED)	MIPR	Various : Various	2.321	0.615	Mar 2020	0.829	Mar 2021	-		-		-	Continuing	Continuing	-
Prior Year Funding - Completed Efforts	Various	Various : Various	1.788	-		-		-		-		-	0.000	1.788	-
Subtotal			34.364	4.574		4.512		4.332		-		4.332	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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
Program Support (ENT/ASIF)	C/FFP	SITEC : Various	6.723	0.259	Mar 2020	1.100	Mar 2021	1.225	Mar 2022	-		1.225	Continuing	Continuing	-
Prior Year Funding - Completed Efforts	Various	Various : Various	0.576	-		-		-		-		-	0.000	0.576	-
Subtotal			7.299	0.259		1.100		1.225		-		1.225	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command

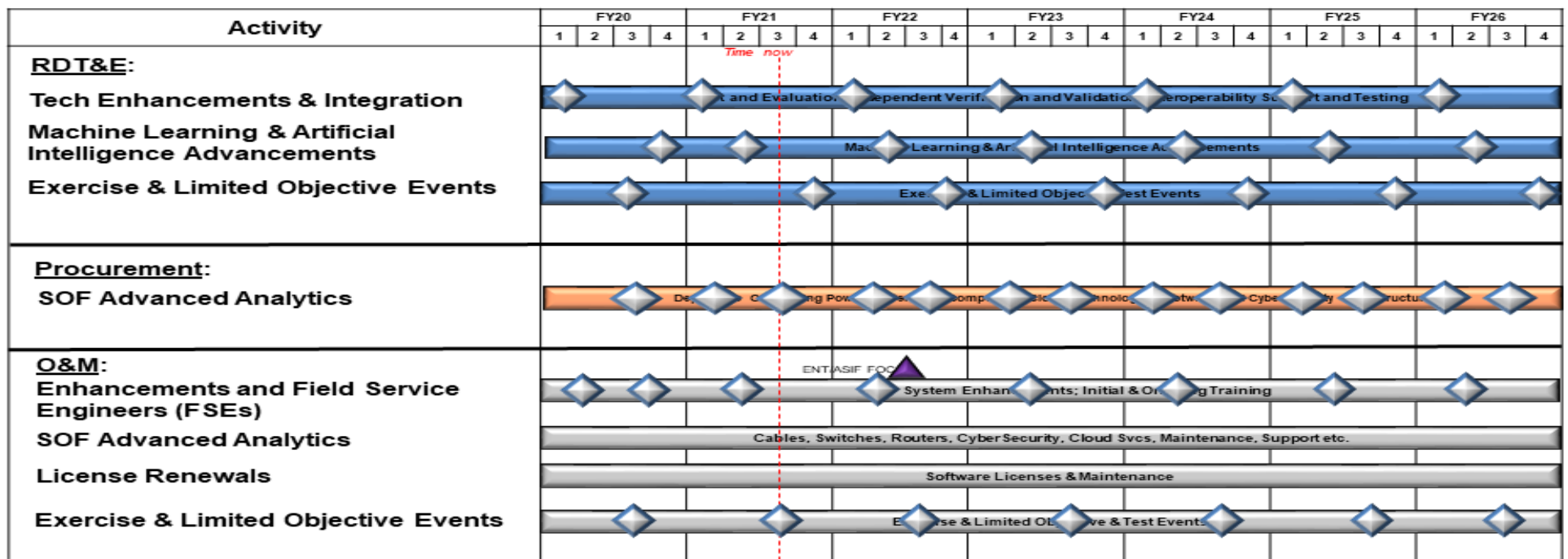
Date: May 2021

Appropriation/Budget Activity
0400 / 7

R-1 Program Element (Number/Name)
PE 0305208BB / Distributed Common Ground/Surface Systems

Project (Number/Name)
S400A / Distributed Common Ground/Surface Systems

Distributed Common Ground/Surface Systems-Special Operations Forces (DCGS-SOF) Enterprise/All Source Information Fusion (ENT/ASIF)



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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command

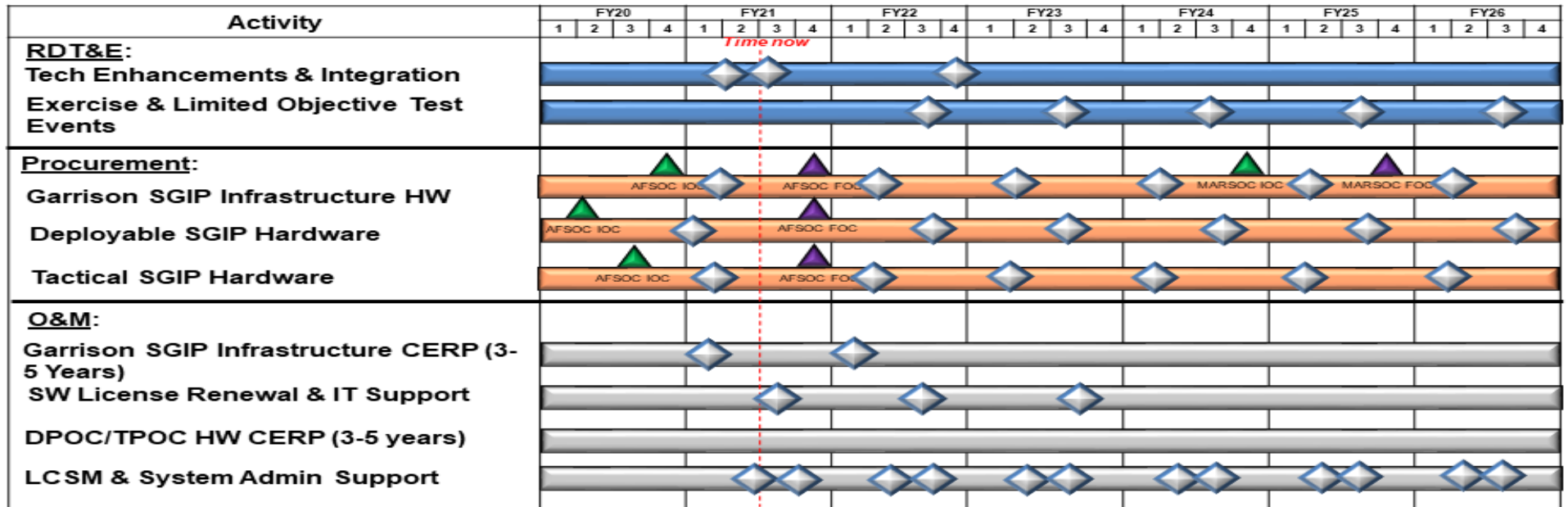
Date: May 2021

Appropriation/Budget Activity
0400 / 7

R-1 Program Element (Number/Name)
PE 0305208BB / Distributed Common Ground/Surface Systems

Project (Number/Name)
S400A / Distributed Common Ground/Surface Systems

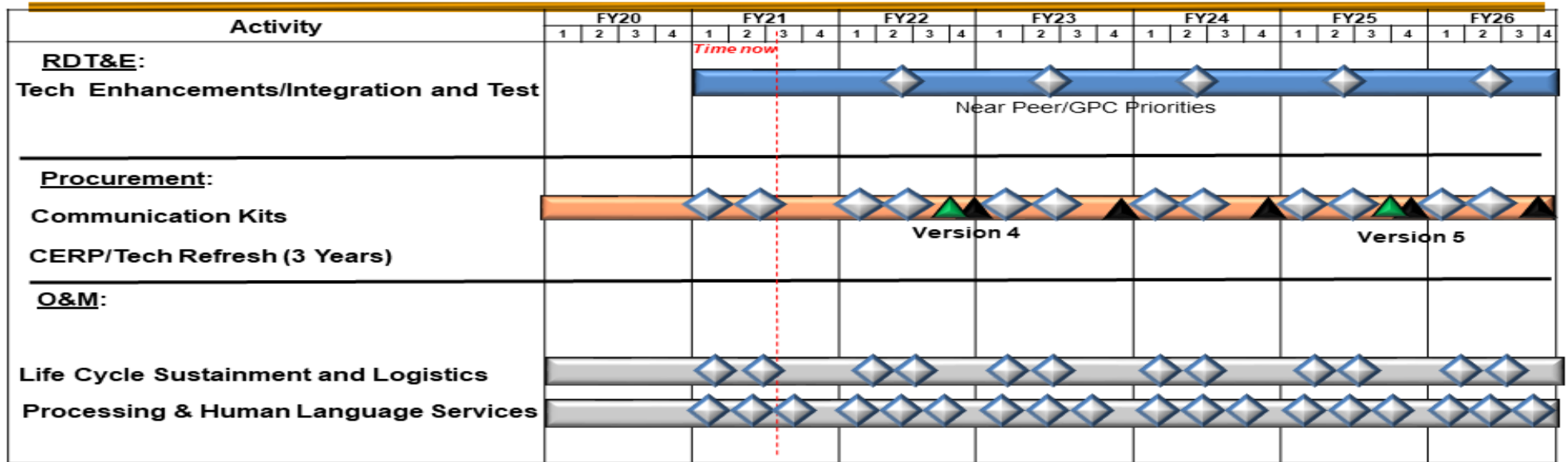
DCGS-SOF Geospatial Intelligence Processing, Exploitation and Dissemination (SGIP) Schedule



▲ FOC
 ▲ Milestone
 ▲ Agile SW MVP
 ◆ Contract Award
 [Blue bar] RDT&E
 [Orange bar] Procurement
 [Grey bar] O&M
 ▲ Previously Reported

Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
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SOF Signals Intelligence (SIGINT) Silent Dagger (SDAG) Schedule



Note: For FY 2021 and prior, funding was displayed under schedule titled SIGINT PED in PE 0305208BB, Project S400A. Beginning FY 2022, funding is contained in PE 1160405BB Project S400 under schedule titled SDAG.

Note: Exercise & Limited Objective Events are depicted on ENT/ASIF and SGIP schedules.



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Exhibit R-4A, RDT&E Schedule Details: PB 2022 United States Special Operations Command		Date: May 2021
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Distributed Common Ground/Surface Systems - Enterprise/ASIF</i>				
Tech Enhancements & Integration	1	2020	4	2026
Machine Learning and Artificial Intelligence Advancements	1	2020	4	2026
Exercise & Limited Objective Events	1	2020	4	2026
<i>Distributed Common Ground/Surface Systems - SGIP</i>				
Tech Enhancements & Integration	1	2020	4	2026
Exercise & Limited Objective Events	1	2020	4	2026