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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 United States Special Operations Command **Date:** April 2022

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0305208BB / <i>Distributed Common Ground/Surface Systems</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	61.289	6.062	5.994	6.095	-	6.095	6.214	5.854	6.066	6.187	Continuing	Continuing
S400A: <i>Distributed Common Ground/Surface Systems</i>	61.289	6.062	5.994	6.095	-	6.095	6.214	5.854	6.066	6.187	Continuing	Continuing

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. DCGS-SOF connects 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 are Enterprise/All Source Information Fusion (ENT/ASIF) and SOF Geospatial Intelligence Processing, Exploitation, and Dissemination (SGIP). ENT/ASIF provides infrastructure, processing, and intelligence analytical tools for worldwide SOF intelligence information sharing via a globally connected cloud based architecture as well as a forward disconnected capability. 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)

	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023 Base</u>	<u>FY 2023 OCO</u>	<u>FY 2023 Total</u>
Previous President's Budget	6.062	5.994	0.000	-	0.000
Current President's Budget	6.062	5.994	6.095	-	6.095
Total Adjustments	0.000	0.000	6.095	-	6.095
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Year	-	-	6.095	-	6.095

Change Summary Explanation

Funding:

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Appropriation/Budget Activity	R-1 Program Element (Number/Name)
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 2021: None.

FY 2022: None.

FY 2023: Funding increase of \$6.095 million reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

Schedule: None.

Technical: None.

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Exhibit R-2A, RDT&E Project Justification: PB 2023 United States Special Operations Command										Date: April 2022		
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 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
S400A: <i>Distributed Common Ground/Surface Systems</i>	61.289	6.062	5.994	6.095	-	6.095	6.214	5.854	6.066	6.187	Continuing	Continuing
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. DCGS-SOF connects 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 are Enterprise/All Source Information Fusion (ENT/ASIF) and SOF Geospatial Intelligence Processing, Exploitation, and Dissemination (SGIP). ENT/ASIF provides infrastructure, processing, and intelligence analytical tools for worldwide SOF intelligence information sharing via a globally connected cloud based architecture as well as a forward disconnected capability. 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)

Title: DCGS-SOF	FY 2021	FY 2022	FY 2023
	6.062	5.994	6.095
Description: DCGS-SOF is composed of two major components: Enterprise/ASIF and SGIP. DCGS-SOF develops and integrates SOF hardware and software networks that provide United States Special Operations Command (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 2022 Plans: Continue technology development, integration of emerging technologies, software solutions 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, testing and integration of emerging technologies for SGIP. Continue DCGS-SOF Limited Objective Events and exercise participation to test integration of emerging			

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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>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
technologies and obtain user feedback of items in development. Continue tech development and integration of emerging technologies for SGIP.			
<i>FY 2023 Plans:</i> Continues technology development, integration of emerging technologies, software solutions and capabilities enhancements for DCGS-SOF ENT/ASIF requirements including but not limited to: Advanced analytics; 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.			
<i>FY 2022 to FY 2023 Increase/Decrease Statement:</i> Increase of \$0.101 million is due to projected price increases on new software development contract.			
Accomplishments/Planned Programs Subtotals	6.062	5.994	6.095

C. Other Program Funding Summary (\$ in Millions)											
<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>
• PROC/020401INTL: <i>Distributed Common Ground/Surface System</i>	11.645	5.991	2.214	-	2.214	6.113	4.471	3.321	4.274	Continuing	Continuing

Remarks

D. Acquisition Strategy

In FY 2021, DCGS SOF ENT/ASIF transformed to employ the software acquisition pathway to facilitate rapid and iterative delivery of operational software to meet dynamic SOF requirements. 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), hardware and software solutions, 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 ISR PED systems. The DCGS-SOF program office employs an agile software 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 USSOCOM 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 Exhibit R-4, RDT&E Schedule Profile, are based on current program office projections. If requirements change based on the DRWG decisions, the ETI and version capabilities identified may change.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 United States Special Operations Command **Date:** April 2022

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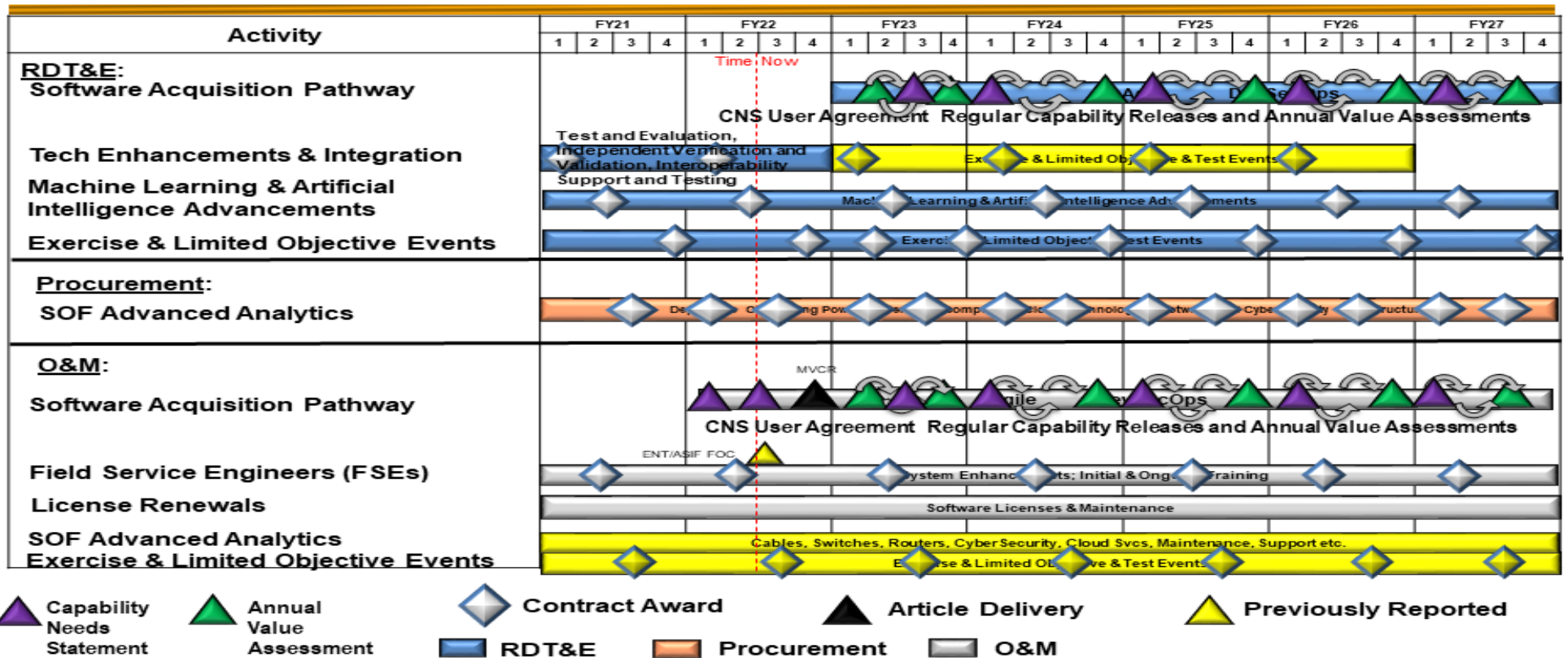
Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Development and Integration - Enterprise / All Source Information Fusion (ENT/ASIF)	Various	Various : Various	14.454	2.953	Jan 2021	3.732	Jan 2022	4.493	Jan 2023	-		4.493	Continuing	Continuing	-
Capabilities Modernization - SOF Geospatial Intelligence Processing Exploitation, and Dissemination (SGIP)	Various	Various : Various	19.760	0.730	Jan 2021	0.600	Jan 2022	0.750	Jan 2023	-		0.750	Continuing	Continuing	-
Independent Verification and Validation - SOF Signals Intelligence Processing Exploitation, and Dissemination (SOF SIGINT PED)	MIPR	Various : Various	2.936	0.829	Mar 2021	-		-		-		-	0.000	3.765	-
Prior Year Funding - Completed Efforts	Various	Various : Various	1.788	-		-		-		-		-	0.000	1.788	-
Subtotal			38.938	4.512		4.332		5.243		-		5.243	Continuing	Continuing	N/A

Support (\$ in Millions)				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			
Program Support (ENT/ASIF)	C/FFP	Various : Various	6.982	1.100	Mar 2021	1.225	Mar 2022	0.591	Jul 2023	-		0.591	Continuing	Continuing	-
Prior Year Funding - Completed Efforts	Various	Various : Various	0.576	-		-		-		-		-	0.000	0.576	-
Subtotal			7.558	1.100		1.225		0.591		-		0.591	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 United States Special Operations Command		Date: April 2022
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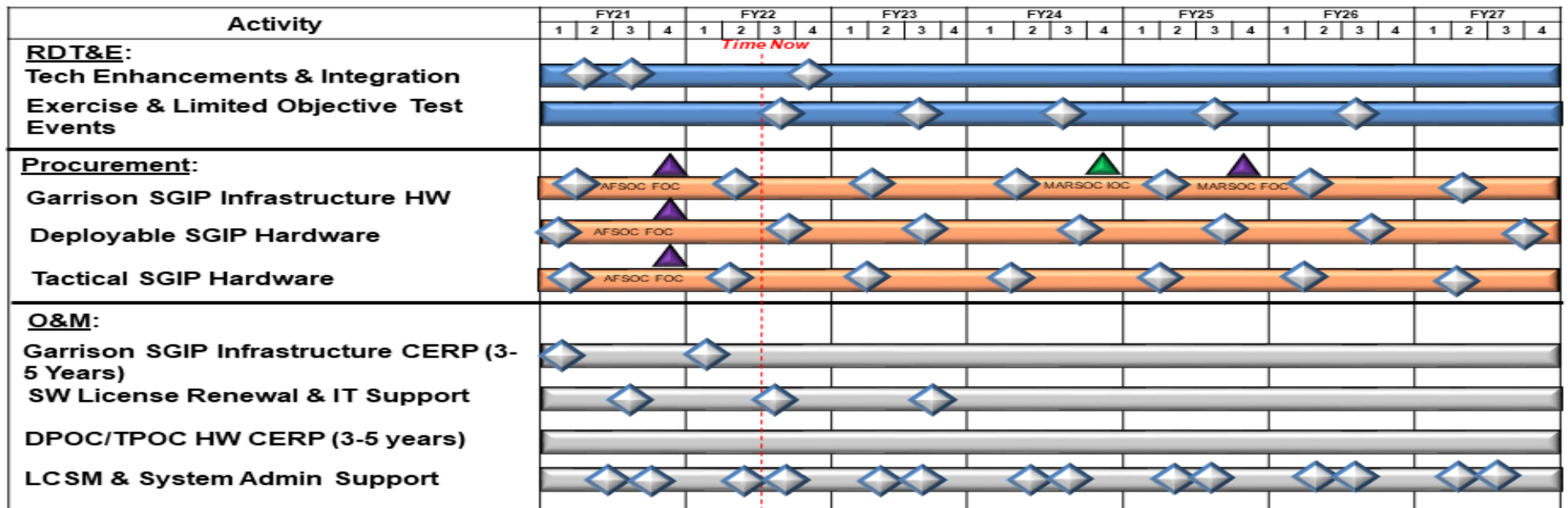
Distributed Common Ground/Surface System-Special Operations Forces Enterprise/All Source Information Fusion (ENT/ASIF) Schedule



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Exhibit R-4, RDT&E Schedule Profile: PB 2023 United States Special Operations Command		Date: April 2022
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Distributed Common Ground/Surface System-Special Operations Forces 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

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 United States Special Operations Command		Date: April 2022
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SOF Signals Intelligence (SIGINT), Processing, Exploitation, Dissemination (PED), Silent Dagger (SD) Schedule

Activity	FY21			
	1	2	3	4
<u>RDT&E:</u>				
Tech Enhancements/Integration and Test	[RDT&E Bar]			
<u>Procurement:</u>				
Communication Silent Dagger Kits (CERP/Tech Refresh 5 Years)		[Procurement Bar]		
<u>O&M:</u>				
Life Cycle Sustainment and Logistics		[O&M Bar]		
Processing & Human Language Services		[O&M Bar]		

Note: For FY 2021 and prior, funding was displayed under schedule titled SIGINT PED in Program Element (PE) 0305208BB; Project S400A Distributed Common Ground Surface Systems. Beginning in FY 2022, funding is contained in PE 1160405BB; Project S400 Special Operations (SO) Intelligence Systems under schedule titled Silent Dagger. Version 4 deployment shifted to FY24 and Version 5 shifted to FY28.



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Exhibit R-4A, RDT&E Schedule Details: PB 2023 United States Special Operations Command		Date: April 2022
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Distributed Common Ground/Surface Systems - Enterprise/All Source Information Fusion (ENT/ASIF)</i>				
Software Aquisition Pathway	1	2023	4	2027
Tech Enhancements & Integration	1	2021	4	2022
Machine Learning and Artificial Intelligence Advancements	1	2021	4	2027
Exercise & Limited Objective Events	1	2021	4	2027
<i>Distributed Common Ground/Surface Systems - SOF Geospatial Intelligence Processing and Dissemination (SGIP)</i>				
Tech Enhancements & Integration	1	2021	4	2027
Exercise & Limited Objective Test Events	1	2021	4	2027
<i>SOF Signals Intelligence (SIGINT) Silent Dagger (SDAG)</i>				
Tech Enhancements/Integration and Test	1	2021	4	2021