Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy

Date: February 2018

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

1319: Research, Development, Test & Evaluation, Navy I BA 7: Operational

PE 0305208N I Distributed Common Ground Sys

Systems Development

,												
COST (\$ in Millions)	Prior			FY 2019	FY 2019	FY 2019					Cost To	Total
COST (\$ III MIIIIOIIS)	Years	FY 2017	FY 2018	Base	oco	Total	FY 2020	FY 2021	FY 2022	FY 2023	Complete	Cost
Total Program Element	226.630	44.564	46.150	42.846	-	42.846	41.474	35.339	36.288	37.046	Continuing	Continuing
2174: Distributed Common Ground System-Navy (DCGS-N)	205.211	1.630	0.325	0.222	-	0.222	0.133	0.140	0.145	0.151	Continuing	Continuing
2227: Distributed Common Ground System (DCGS-N) Inc 2	21.419	42.934	45.825	42.624	-	42.624	41.341	35.199	36.143	36.895	102.208	404.588

Program MDAP/MAIS Code:

Project MDAP/MAIS Code(s): MN40, M464

A. Mission Description and Budget Item Justification

The Distributed Common Ground System - Navy (DCGS-N) is the Navy's portion of the Under Secretary of Defense, Intelligence (USD (I)) DCGS Family of Systems (FoS). The Department of Defense (DoD) has defined a DCGS architecture that will be compatible and interoperable across all of the Services' Intelligence, Surveillance and Reconnaissance (ISR) systems and operations. DCGS accesses and ingests data from spaceborne, airborne, subsurface, and surface ISR collection assets, intelligence databases and intelligence producers. This collected data is shared across a Joint enterprise using the DCGS Integration Backbone (DIB) and in time, the Defense Intelligence Information Enterprise (DI2E) to enhance access and sharing of ISR information across Joint forces through the use of common enterprise standards and services. DCGS FoS supports Joint Task Force (JTF)-level and below combat operations with critical intelligence for battle management and information dominance across the full spectrum of operations, including peace, conflict, war, and Overseas Contingency Operations (OCO). DCGS is a cooperative effort between the services, agencies, and DoD to provide systems capable of receiving, processing, exploiting, and disseminating data from airborne and national reconnaissance platforms. DCGS-N core components include the analyst workstation from the Global Command and Control System (GCCS) - Integrated Imagery and Intelligence (I3), Generic Area Limitation Environment (GALE) Signals Intelligence (SIGINT), Common Geo-positioning Services (CGS), Image Product Library (IPL) or Information Store (iSToRE), Modernized Integrated Database (MIDB), Joint Concentrator Architecture (JCA) and Track Management Services (TMS).

The DCGS-N system represents the integration of 1) The processing and exploitation of tactical and Imagery Intelligence (IMINT) and SIGINT; 2) Precision target geopositioning, mensuration, and imagery dissemination capabilities; 3) Selected national IMINT requirements and processing capabilities from the National Geospatial-Intelligence Agency (NGA); and 4) Sharing of Intelligence, Surveillance, Reconnaissance and Targeting (ISR&T) and Command and Control information via DIB, DI2E, and Net-Centric Enterprise Services (NCES) standards with a wide range of customers (e.g., Global Command and Control System - Maritime (GCCS-M), Joint Mission Planning System (JMPS), and many others).

The DCGS-N Enterprise Node (DEN), which incorporates current DIB standards and DI2E policy, facilitates interoperability and data sharing among the DCGS FoS. DCGS-N ensures compliance with the DoD DCGS network architecture.

The Navy is establishing an ISR Enterprise way ahead that will emphasize a reach back strategy to provide intelligence products to support deployed ship and shore operations. The Navy will also migrate to a Service Oriented Architecture (SOA) that requires the integration and testing of a Maritime ISR Enterprise capabilities,

PE 0305208N: Distributed Common Ground Sys

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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy

Appropriation/Budget Activity

1319: Research, Development, Test & Evaluation, Navy I BA 7: Operational Systems Development

R-1 Program Element (Number/Name)

PE 0305208N I Distributed Common Ground Sys

migration of ISR applications to a SOA environment, and integration to leverage a Common Computing Environment (CCE) and the Intelligence Community Information Technology Enterprise (IC ITE). DCGS-N will also become the focal point for migration of Maritime Domain Awareness (MDA) fusion and analysis Maritime Fusion & Analysis (MFAS) tool applications for the Navy. Additionally, Intelligence Surveillance and Reconnaissance (ISR) funding supports development and integration efforts to fuse Intelligence, Surveillance, Reconnaissance and Targeting (ISR&T) data collected, exploited and disseminated by ISR systems with other intelligence data and automatically provide to shipboard combat systems to support kinetic (bombs, mortars, missiles, bullets)and non-kinetic fires (electronic attack, lasers, cyber-attack)and more effective exploitation of the electromagnetic spectrum. ISR systems will play key roles in enabling the national-to-tactical integration necessary for an integrated maritime targeting capability in support of kinetic and non-kinetic fires.

Distributed Common Ground System-Navy (DCGS-N) Increment 2 addresses a critical shortfall in Tasking, Collection, Processing, Exploitation, and Dissemination (TCPED) capability and capacity to support operational, tactical planning, and execution across the full range of joint military operations. Existing TCPED shortfalls will be exacerbated by planned Navy, Joint, and Allied fielding of new ISR platforms. Currently fielded systems provide localized processing capabilities that will be overwhelmed in future years without a significant change in the way the Navy processes, exploits and disseminates intelligence data. DCGS-N Increment 2 will deliver all source fusion and analytical capabilities; provide Maritime Domain Awareness (MDA) capabilities and integrate TCPED capabilities to improve the use and analysis of sensor and platform data. DCGS-N Increment 2 will be based on an enterprise solution to share this information across commands, services, and agencies to promote shared situational awareness. DCGS-N Increment 2 consists of multiple releases. The first release (Fleet Capability Release 1 (FCR-1)) provides an enhanced Navy ISR enterprise that converges and builds on the DCGS-N Increment 1 and MDA Enterprise Nodes; leverages the Defense Intelligence Information Enterprise (DI2E); is compliant with the Common Computing Environment (CCE) and the Community Information Technology Enterprise (IC ITE); federates ISR and TCPED workflow and production improving throughout the automation; exploits new and evolving unmanned systems sensor data; provides Multi-Intelligence (Multi-INT) cross-queuing and modular tools. The second release (Fleet Capability Release 2 (FCR-2), enhances afloat ISR capabilities by providing a set of software centric tools providing Multi-INT fusion and analysis, behavior prediction and intelligent knowledge management designed to operate in disconnected or denied communications environment. Follow-on releases will be developed based on Fleet requirements.

In FY19, DCGS-N Increment 1 will continue development, integration and regression testing required to remain aligned with national imagery standards to be incorporated into technology refreshes for End-of-Life upgrades.

In FY19, DCGS-N Increment 2 will conduct the Fielding Technical Review and Fielding Decision Review of Fleet Capability Release 1 (FCR-1), which comprises the ashore backbone of the Navy's ISR&T enterprise and will contain enterprise data and analytics, and synchronize the Common Intelligence Picture across the Fleet. This portion of the DCGS-N Increment 2 system will support future test events. DCGS-N Increment 2 will complete integration of Fleet Capability Release 2 (FCR-2) which comprises the afloat nodes of the Navy's ISR&T enterprise. DCGS-N Increment 2 will conduct an In Progress Test Review and Integrated Test of the FCR-2 build including rigorous cyber security testing. DCGS-N Increment 2 will continue developing hardware specifications for Initial Operational Test and Evaluation (IOT&E), and begin planning for Fleet Capability Release 3 (FCR-3) including developing the Requirements Definition Package (RDP), preparing for the Build Technical Review and Build Decision. DCGS-N Increment 2 will continue Passive Targeting Efforts leveraging Office of Naval Research (ONR) Electromagnetic Battle Management (EMBM) Future Naval Capabilities (FNC) to network and fuse Passive Targeting Data.

PE 0305208N: Distributed Common Ground Sys

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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy

R-1 Program Element (Number/Name)

1319: Research, Development, Test & Evaluation, Navy I BA 7: Operational

PE 0305208N / Distributed Common Ground Sys

Date: February 2018

Systems Development

Appropriation/Budget Activity

B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	44.571	46.150	48.207	-	48.207
Current President's Budget	44.564	46.150	42.846	-	42.846
Total Adjustments	-0.007	0.000	-5.361	-	-5.361
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-	-			
 Program Adjustments 	0.000	0.000	-5.048	-	-5.048
 Rate/Misc Adjustments 	0.000	0.000	-0.313	-	-0.313
 Congressional General Reductions 	-0.007	-	-	-	-
Adjustments					

Change Summary Explanation

The FY 2019 funding request was reduced by (\$0.621) million to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.

The FY19 DCGS-N funding request was reduced by \$2.3M to account for the availability of prior year execution balances.

The \$103K decrease for DCGS-N Increment 1 from FY18 to FY19 is a result of Efficiencies, Common Geospatial Services (CGS), and associated systems engineering services.

Schedule: DCGS-N Increment 2's fielding has been updated to reflect PEO C4I synchronized plan.

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2019 N	lavy							Date: Febr	uary 2018	
Appropriation/Budget Activity 1319 / 7					_	am Elemen 08N <i>I Distrib</i> 7s	•	•	Project (No. 2174 / Dist Navy (DCC	ributed Cor	ne) nmon Grour	nd System-
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
2174: Distributed Common Ground System-Navy (DCGS-N)	205.211	1.630	0.325	0.222	-	0.222	0.133	0.140	0.145	0.151	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: MN40

A. Mission Description and Budget Item Justification

The Distributed Common Ground System - Navy (DCGS-N) is the Navy's portion of the Under Secretary of Defense, Intelligence (USD (I)) DCGS Family of Systems (FoS). The Department of Defense (DoD) has defined a DCGS architecture that will be compatible and interoperable across all of the Services' Intelligence, Surveillance and Reconnaissance (ISR) systems and operations. DCGS accesses and ingests data from space borne, airborne, subsurface, and surface ISR collection assets, intelligence databases and intelligence producers. This collected data is shared across a Joint enterprise using the DCGS Integration Backbone (DIB) and in time, the Defense Intelligence Information Enterprise (DI2E) to enhance access and sharing of ISR information across Joint forces through the use of common enterprise standards and services. DCGS FoS supports Joint Task Force (JTF)-level and below combat operations with critical intelligence for battle management and information dominance across the full spectrum of operations, including peace, conflict, war, and Overseas Contingency Operations (OCO). DCGS is a cooperative effort between the services, agencies, and DoD to provide systems capable of receiving, processing, exploiting, and disseminating data from airborne and national reconnaissance platforms. DCGS-N core components include the analyst workstation from the Global Command and Control System (GCCS) - Integrated Imagery and Intelligence (I3), Generic Area Limitation Environment (GALE) Signal Intelligence (SIGINT), Common Geo-positioning Services (CGS), Image Product Library (IPL), Modernized Integrated Database (MIDB), Joint Concentrator Architecture (JCA) and Track Management Services (TMS).

The DCGS-N system represents the integration of 1) The processing and exploitation of tactical and Imagery Intelligence (IMINT) and SIGINT; 2) Precision target geopositioning, mensuration, and imagery dissemination capabilities; 3) Selected national IMINT requirements and processing capabilities from the National Geospatial-Intelligence Agency (NGA); and 4) Sharing of Intelligence, Surveillance, Reconnaissance and Targeting (ISR&T) and Command and Control information via DIB, DI2E, and Net-Centric Enterprise Services (NCES) standards with a wide range of customers (e.g., Global Command and Control System - Maritime (GCCS-M), Joint Mission Planning System (JMPS), and many others).

The DCGS-N Enterprise Node (DEN), which incorporates current DIB standards and DI2E policy, facilitates interoperability and data sharing among the DCGS FoS. DCGS-N ensures compliance with the DoD DCGS network architecture.

The Navy is establishing an ISR Enterprise way ahead that will emphasize a reach back strategy to provide intelligence products to support deployed ship and shore operations. The Navy will also migrate to a Service Oriented Architecture (SOA) that requires the integration and testing of Maritime ISR Enterprise capabilities, migration of ISR SOA applications, integration to leverage a Common Computing Environment (CCE) and the Intelligence Community Information Technology Enterprise (IC ITE). Additionally, DCGS-N will become the focal point for migration of Maritime Domain Awareness (MDA) fusion and analysis Maritime Fusion & Analysis (MFAS) tool applications for the Navy.

PE 0305208N: Distributed Common Ground Sys

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305208N / Distributed Common Ground Sys	•	umber/Name) ributed Common Ground System- GS-N)

In FY19, DCGS-N Increment 1 will continue development, integration and regression testing required to remain aligned with national imagery standards to be incorporated into technology refreshes for End-of-Life upgrades.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Distributed Common Ground System-Navy (DCGS-N) Increment 1 Articles:	1.630	0.325	0.222	0.000	0.222
FY 2018 Plans: In FY18, DCGS-N Increment 1 will continue development, integration and regression testing that is required to align with emerging national imagery standards for tech refreshes and End-of-Life Upgrades.					
FY 2019 Base Plans: In FY19, DCGS-N Increment 1 will continue development, integration and regression testing that is required to remain aligned with emerging national imagery standards for tech refreshes and End-of-Life Upgrades.					
FY 2019 OCO Plans: N/A					
FY 2018 to FY 2019 Increase/Decrease Statement: The \$103K decrease for DCGS-N Increment 1 from FY18 to FY19 is a result of Efficiencies, Common Geospatial Services (CGS), and associated systems engineering services.					
Accomplishments/Planned Programs Subtotals	1.630	0.325	0.222	0.000	0.222

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

			FY 2019	FY 2019	FY 2019					Cost To	
<u>Line Item</u>	FY 2017	FY 2018	Base	OCO	<u>Total</u>	FY 2020	FY 2021	FY 2022	FY 2023	Complete	Total Cost
OPN 2914: Distributed Common	23.610	20.182	12.896	-	12.896	20.733	20.876	14.895	25.692	234.735	613.065
Ground System-Navy (DCGS-N)											

Remarks

0305208N/2914 is a shared Program Element (PE) with Distributed Common Ground System-Navy (DCGS-N) Increment 1, Increment 2, and Intelligence Carry-On Program (ICOP)

D. Acquisition Strategy

DCGS-N program utilizes mature Commercial-Off-The-Shelf (COTS) and Governmental-Off-The-Shelf (GOTS) capabilities. The Navy adapts and integrates these capabilities and ensures interoperability with the DCGS Integration Backbone (DIB) standards and Defense Intelligence Information Enterprise (DI2E) policies.

PE 0305208N: Distributed Common Ground Sys Navy UNCLASSIFIED
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Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305208N I Distributed Common Ground Sys	Project (Number/Name) 2174 I Distributed Common Ground System-Navy (DCGS-N)
Integration of DCGS-N Increment 1 components has transitioned from Product (PMP) contract.	m Government-led to Industry-led based on the award	of DCGS-N Increment 1 Prime Mission
E. Performance Metrics		
DCGS-N Increment 1 Goal: Meet national imagery standards. DCGS-N Increment 1 Metric: Support development, integration and i	regression testing required to align with emerging nation	onal imagery standards.

PE 0305208N: *Distributed Common Ground Sys* Navy

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Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	2019 Navy	/				-			-	Date:	February	2018	
Appropriation/Budge 1319 / 7	t Activity	1					5208N / C		umber/Na d Commo		2174 <i>I L</i>	(Number Distributed DCGS-N)		n Ground	System
Product Developmen	nt (\$ in M	illions)		FY 2	2017	FY 2	2018	FY 2	2019 ise		2019 CO	FY 2019 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	Total Cost	Target Value of Contract
Product Development Prior Years	Various	Various : Various	109.867	0.000		0.000		0.000		-		0.000	0.000	109.867	-
Systems Engineering	WR	SSC LANT : Charleston, SC	12.142	0.181	Nov 2016	0.150	Jan 2018	0.075	Nov 2018	-		0.075	Continuing	Continuing	Continuin
Integration Assembly & Test	WR	SSC PAC : San Diego, CA	0.150	0.100	Nov 2016	0.000		0.000		-		0.000	0.000	0.250	-
Integration Assembly & Test	C/CPFF	NSWC China Lake : China Lake, CA	0.000	0.593	Aug 2017	0.100	Jan 2018	0.100	Nov 2018	-		0.100	0.000	0.793	-
Government Technical Oversight (Dev)	WR	SSC LANT : Charleston, SC	0.200	0.191	Nov 2016	0.075	Jan 2018	0.047	Nov 2018	-		0.047	0.000	0.513	-
		Subtotal	122.359	1.065		0.325		0.222		-		0.222	Continuing	Continuing	N/A
Support (\$ in Millions	Support (\$ in Millions)			FY 2	2017	FY 2	2018	FY 2	2019 ise		2019 CO	FY 2019 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	Total Cost	Target Value of Contract
Support Prior Years	Various	Various : Various	43.904	0.000		0.000		0.000		-		0.000	0.000	43.904	-
Development Support	WR	SSC LANT : Charleston, SC	1.680	0.185	Nov 2016	0.000		0.000		-		0.000	0.000	1.865	-
		Subtotal	45.584	0.185		0.000		0.000		-		0.000	0.000	45.769	N/A
Test and Evaluation	evaluation (\$ in Millions)			FY 2	2017	FY 2	2018	FY 2	2019 ise		2019 CO	FY 2019 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 & Evaluation Prior Years	Various	Various : Various	23.423	0.000		0.000		0.000		-		0.000	0.000	23.423	-
Developmental Test & Evaluation	WR	SSC LANT : Charleston, SC	2.747	0.300	Nov 2016	0.000		0.000		-		0.000	0.000	3.047	-
		Subtotal	26.170	0.300		0.000		0.000		-		0.000	0.000	26.470	N/A

PE 0305208N: *Distributed Common Ground Sys* Navy

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
1319 / 7	PE 0305208N I Distributed Common	2174 I Distributed Common Ground System-
	Ground Sys	Navy (DCGS-N)

Management Service	es (\$ in M	illions)		FY 2	2017	FY 2	2018	FY 2 Ba		FY 2	2019 CO	FY 2019 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
Management Services Prior Years	Various	Various : Various	9.534	0.000		0.000		0.000		-		0.000	0.000	9.534	-
Government Engineering Support	WR	SSC LANT : Charleston, SC	1.564	0.080	Nov 2016	0.000		0.000		-		0.000	0.000	1.644	-
		Subtotal	11.098	0.080		0.000		0.000		-		0.000	0.000	11.178	N/A

	Prior Years	FY 2	017	FY 2	2018	FY 2 Ba	019 se		2019 CO	FY 2019 Total	Cost To	Total Cost	Target Value of Contract
Project Cost Totals	205.211	1.630		0.325		0.222		-		0.222	Continuing	Continuing	N/A

Remarks

PE 0305208N: *Distributed Common Ground Sys* Navy

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Exhibit R-4, RDT&E Sched	ule Pr	ofile	: PB 2	019	Navy										_	_	_				D	ate:	Febr	uary	2018		
Appropriation/Budget Activ 1319 / 7	vity									R-1 P PE 03 Groun	3052	208N						e)	217	74 I E	(Nun Distrib CGS	uted			Grou	ınd S	yste
EXHIBIT R4, Schedule Profile	DATE: Jan	-18																									
APPROPRIATION/BUDGET ACTIVITY			MBER A	ND NA	AME																						
RDT&E, N / BA-7	2174 [Distribut	ed Comr	non G	round Sy	/stem -	Navy (D	CGS-N	1)																		
Fiscal Year	2017				2018			2	019			2020				2021				2022				2023			
2174 DCGS-N	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	
DCGS-N Increments 1 Tech Refresh	FOL/E	CP/FC A	As Req	V	FOL/E	CP/FC A	As Req	7 F	OL/ECP/I	FC As Req	\bigvee	∆ FOL⁄	ECP/FC	As Req	\bigvee	∆_ FOL	ECP/F	C As R	$\bigvee_{p;q}$								

PE 0305208N: Distributed Common Ground Sys Navy UNCLASSIFIED
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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305208N / Distributed Common Ground Sys	- 3 (lumber/Name) tributed Common Ground System- GS-N)

Schedule Details

	Sta	art	End				
Events by Sub Project	Quarter	Year	Quarter	Year			
Proj 2174							
DCGS-N Increment 1 Tech Refresh	1	2017	4	2021			

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2019 N	lavy							Date: Febr	uary 2018		
Appropriation/Budget Activity 1319 / 7					_	am Element 08N <i>I Distrib</i> 7s	•	2227 I Dist	oject (Number/Name) 27 I Distributed Common Ground System CGS-N) Inc 2				
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost	
2227: Distributed Common Ground System (DCGS-N) Inc 2	21.419	42.934	45.825	42.624	-	42.624	41.341	35.199	36.143	36.895	102.208	404.588	
Quantity of RDT&E Articles		-	1	1	-	1	-	-	-	-			

Project MDAP/MAIS Code: M464

Note

Navy

Cost-To-Complete reflects Distributed Common Ground System - Navy (DCGS-N) Increment 2 only. DCGS-N Increment 2 reflects Department of Navy Component Cost Position (CCP).

A. Mission Description and Budget Item Justification

Distributed Common Ground System-Navy (DCGS-N) Increment 2 addresses a critical shortfall in Tasking, Collection, Processing, Exploitation, and Dissemination (TCPED) capability and capacity to support operational, tactical planning, and execution across the full range of joint military operations. Existing TCPED shortfalls will be exacerbated by planned Navy, Joint, and Allied fielding of new ISR platforms. Currently fielded systems provide localized processing capabilities that will be overwhelmed in future years without a significant change in the way the Navy processes, exploits and disseminates intelligence data. DCGS-N Increment 2 will deliver all source fusion and analytical capabilities; provide Maritime Domain Awareness (MDA) capabilities and integrate TCPED capabilities to improve the use and analysis of sensor and platform data. DCGS-N Increment 2 will be based on an enterprise solution to share this information across commands, services, and agencies to promote shared situational awareness. DCGS-N Increment 2 consists of multiple releases. The first release (Fleet Capability Release 1 (FCR-1)) provides an enhanced Navy ISR enterprise that converges and builds on the DCGS-N Increment 1 and MDA Enterprise Nodes; leverages the Defense Intelligence Information Enterprise (DI2E); is compliant with the Common Computing Environment (CCE) and the Community Information Technology Enterprise (IC ITE); federates ISR and TCPED workflow and production improving throughout the automation; exploits new and evolving unmanned systems sensor data; provides Multi-Intelligence (Multi-INT) cross-queuing and modular tools. The second release (Fleet Capability Release 2 (FCR-2), enhances afloat ISR capabilities by providing a set of software centric tools providing Multi-INT fusion and analysis, behavior prediction and intelligent knowledge management designed to operate in disconnected or denied communications environment. Follow-on releases will be developed based on Fleet requirements.

In FY19, DCGS-N Increment 2 will conduct the Fielding Technical Review and Fielding Decision Review of Fleet Capability Release 1 (FCR-1) which comprises the ashore backbone of the Navy's Intelligence, Surveillance, Reconnaissance and Targeting (ISR&T) enterprise and will contain enterprise data and analytics, and synchronize the Common Intelligence Picture across the Fleet. This portion of the DCGS-N Increment 2 system will support future test events. DCGS-N Increment 2 will complete integration of Fleet Capability Release 2 (FCR-2) which comprises the afloat nodes of the Navy's ISR&T enterprise. DCGS-N Increment 2 will conduct an In Progress Test Review and Integrated Test of the FCR-2 build including rigorous cyber security testing. DCGS-N Increment 2 will continue developing hardware specifications for Initial Operational Test and Evaluation (IOT&E), and begin planning for Fleet Capability Release 3 (FCR-3) including developing the Requirements Definition Package (RDP), preparing for the Build Technical Review and Build Decision. DCGS-N Increment 2 will continue Passive Targeting Efforts leveraging Office of Naval Research (ONR) Electromagnetic Battle Management (EMBM) Future Naval Capabilities (FNC) to network and fuse passive targeting Data.

PE 0305208N: Distributed Common Ground Sys

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305208N / Distributed Common Ground Sys	- , (umber/Name) tributed Common Ground System Inc 2

Ground Sys		(DCGS-N)			Ta Oystoni
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Distributed Common Ground System-Navy (DCGS-N) Increment 2	42.934	45.825	42.624	0.000	42.624
Articles: FY 2018 Plans:	-	1	1	-	•
DCGS-N Increment 2 will complete integration of Fleet Capability Release 1 (FCR-1) which comprises the					
ashore backbone of the Navy's Intelligence, Surveillance, Reconnaissance and Targeting (ISR&T) enterprise					
and will contain enterprise data and analytics and synchronize the Common Intelligence Picture across the					
Fleet. This portion of the DCGS-N Increment 2 system will support future test events. DCGS-N Increment 2 will					
develop one (1) unit for Environmental Qualification Testing (EQT) and begin planning for Initial Operational Test and Evaluation (IOT&E) hardware design and acquisition. At the conclusion of FCR-1 integration the program					
will conduct an In Progress Test Review and integrated test of the of the FCR-1 build including rigorous cyber					
security testing culminating in a Fielding Technical Review to support the FCR-1 Fielding Decision Review					
in FY19. Other integration efforts include maritime object of interest track data management, correlation of					
limited data sources to maritime objects of interest, recognition of patterns of life from maritime objects of interest historical data, automate collection target area prediction; all with rigorous cyber security embedded					
into each facet of the capability. DCGS-N Increment 2 continues to develop a standard software baseline					
for the DCGS Family of Systems (FoS). DCGS-N Increment 2 begins integration efforts to fuse ISR&T data					
collected, exploited and disseminated by Intelligence, Surveillance, Reconnaissance (ISR) systems with other					
intelligence data and automatically provides shipboard combat systems to support kinetic and non-kinetic fires					
and more effective exploitation of the electromagnetic spectrum. ISR systems play key roles in enabling the national-to-tactical integration necessary for an integrated maritime targeting capability in support of kinetic					
and non-kinetic fires. DCGS-N Increment 2 begins planning for Fleet Capability Release 2 (FCR-2) including					
approval of the Requirements Definition Package (RDP), Build Technical Review, and Build Decision. DCGS-					
N Increment 2 will continue to use available contracting vehicles and hybrid government/industry integration					
efforts to provide capability and capacity through Fleet Capability Release 2 (FCR-2). DCGS-N Increment 2 will award an Integration Contract based on continuous market research that will address integration of commercial					
components procured for the DCGS-N Increment 2 baseline. This Integration Contract will cover integration					
of capabilities in FCR-3 through Fleet Capability Release 5 (FCR-5), and ensure Distributed Common Ground					
System-Navy (DCGS-N) Increment 2 interoperability with the DCGS-N Family of System (FoS), the multi-					
service and Intelligence Community DCGS FoS, and the Consolidated Afloat Networks and Enterprise Services					
(CANES) system. Increment 2 will begin establishing Electromagnetic Battle Management (EMBM) Future Naval Capabilities (FNC) to network and fuse passive targeting data. Passive Targeting efforts include the					
transition to cloud architecture, enhancement and integration of data models to ensure interoperability and					

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Exhibit R-2A, RDT&E Project Just	ification: PB	2019 Navy							Date: Feb	ruary 2018					
Appropriation/Budget Activity 1319 / 7				PE 03		ment (Numberstributed Con									
B. Accomplishments/Planned Pro	g <u>rams (\$ in N</u>	Millions, Art	icle Quantit	ties in Each).		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total				
compatibility with Intelligence Comm Common Ground System-Navy (DC training documentation as required.															
FY 2019 Base Plans: In FY19, DCGS-N Increment 2 will of Fleet Capability Release 1 (FCR-Surveillance, Reconnaissance and and synchronize the Common Intelli	1) which com _l Fargeting (ISF gence Picture	prises the as R&T) enterpr e across the	hore backbo ise and will o Fleet. This p	one of the Na contain enter portion of the	avy's Intellig rprise data a DCGS-N In	ence, and analytics, acrement 2 ability Releas	se								
2 (FCR-2) which comprises the afloa an In Progress Test Review and Interpreted DCGS-N Increment 2 will continue to (FoS). DCGS-N Increment 2 will begon Requirements Definition Package (FN Increment 2 will develop one (1) unacquisition. DCGS-N Increment 2 will (ONR) Electromagnetic Battle Mana Passive Targeting Data.	at nodes of the egrated Test of develop a sign planning for RDP), preparirent for Initial Could continue Paril continue Paril	e Navy's ISF of the FCR-2 tandard softe or Fleet Capa ng for the Bu Dperational 1 assive Targe	build includ ware baselin ability Relea- ild Technica est and Eva eting Efforts	ing rigorous ne for the DC se 3 (FCR-3 al Review and aluation (IOT leveraging C	cyber secur GS Family of including of d Build Deci (&E) hardwa Office of Nav	ity testing. of Systems leveloping the sion. DCGS- re design and al Research	e								
system will support future test event 2 (FCR-2) which comprises the afloa an In Progress Test Review and Inte DCGS-N Increment 2 will continue to (FoS). DCGS-N Increment 2 will beg Requirements Definition Package (FN Increment 2 will develop one (1) acquisition. DCGS-N Increment 2 w (ONR) Electromagnetic Battle Mana Passive Targeting Data. FY 2019 OCO Plans: N/A	at nodes of the egrated Test of develop a sign planning for RDP), preparirent for Initial Could continue Paril continue Paril	e Navy's ISF of the FCR-2 tandard softe or Fleet Capa ng for the Bu Dperational 1 assive Targe	build includ ware baselin ability Relea- ild Technica est and Eva eting Efforts	ing rigorous ne for the DC se 3 (FCR-3 al Review and aluation (IOT leveraging C	cyber secur GS Family of including of d Build Deci (&E) hardwa Office of Nav	ity testing. of Systems leveloping the sion. DCGS- re design and al Research	e								
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2 (FCR-2) which comprises the afloa an In Progress Test Review and Interpretation DCGS-N Increment 2 will continue to (FoS). DCGS-N Increment 2 will begon Requirements Definition Package (FN Increment 2 will develop one (1) unacquisition. DCGS-N Increment 2 will develop one (1) unacquisition. DCGS-N Increment 2 with (ONR) Electromagnetic Battle Mana Passive Targeting Data. FY 2019 OCO Plans: N/A FY 2018 to FY 2019 Increase/Decrement Py 19 funding profile shows a decrease.	at nodes of the egrated Test of the egrated Te	e Navy's ISF of the FCR-2 tandard softo or Fleet Capa ng for the Bu Dperational 1 assive Targe BM) Future N ent: FY18, in rea ear execution	build includ ware baseling ability Released Technica est and Evantering Efforts laval Capabilation	ing rigorous he for the DC se 3 (FCR-3 hl Review and hluation (IOT leveraging C ilities (FNC)	cyber secur GS Family of) including of d Build Deci &E) hardwa Office of Nav to network a	ity testing. of Systems leveloping the sion. DCGS- re design and al Research and fuse	e d	45.825	42.624	0.000	42.624				
2 (FCR-2) which comprises the afloa an In Progress Test Review and Interpretation DCGS-N Increment 2 will continue to (FoS). DCGS-N Increment 2 will begard Requirements Definition Package (FN Increment 2 will develop one (1) unacquisition. DCGS-N Increment 2 wo (ONR) Electromagnetic Battle Mana Passive Targeting Data. FY 2019 OCO Plans: N/A FY 2018 to FY 2019 Increase/Decrement The FY19 funding profile shows a decrease.	at nodes of the egrated Test of develop a sign planning for the egrate of the egrate o	e Navy's ISF of the FCR-2 tandard softo or Fleet Capa ng for the Bu Dperational 1 assive Targe BM) Future N ent: FY18, in rea	build includ ware baseling ability Released Technica est and Evantering Efforts laval Capabilation	ing rigorous he for the DC se 3 (FCR-3 hl Review and hluation (IOT leveraging C ilities (FNC)	cyber secur GS Family of) including of d Build Deci &E) hardwa Office of Nav to network a	ity testing. of Systems leveloping the sion. DCGS- re design and al Research and fuse	e d	45.825	42.624	0.000	42.624				
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Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
1319 / 7	PE 0305208N I Distributed Common	2227 I Dist	tributed Common Ground System
	Ground Sys	(DCGS-N)	Inc 2

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

			FY 2019	FY 2019	FY 2019					Cost To	
Line Item	FY 2017	FY 2018	Base	OCO	<u>Total</u>	FY 2020	FY 2021	FY 2022	FY 2023	Complete	Total Cost

Remarks

Navy

0305208N/2914 is a shared Program Element (PE) with Distributed Common Ground System - Navy (DCGS-N) Increment 1, Increment 2, and Intelligence Carry-On Program (ICOP).

D. Acquisition Strategy

The Distributed Common Ground System-Navy (DCGS-N) Increment 2 acquisition is based on the Department of Defense Instruction (DODI) 5000.02, Model 3, for incrementally fielded software intensive programs.

E. Performance Metrics

DCGS-N Increment 2 Goal: Support afloat forces through a robust enterprise Intelligence Surveillance, Reconnaissance and Targeting (ISR&T) capability, satisfying maritime needs for processing, exploitation and dissemination.

DCGS-N Increment 2 Metric: Field Fleet Capability Release 1 (FCR-1), complete development of Fleet Capability Release 2 (FCR-2), and begin development of Fleet Capability Release 3 (FCR-3).

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy Date: February 2018

Appropriation/Budget Activity R-1 Program Element (Number/Name) Project (Number/Name)

1319 / 7 PE 0305208N / Distributed Common 2227 I Distributed Common Ground System

Ground Sys (DCGS-N) Inc 2

Product Developme	nt (\$ in M	illions)		FY 2	2017	FY 2	2018	FY 2 Ba	2019 ise	FY 2	2019 CO	FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Prior Activity & Location Years		Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Integration Assembly & Test	WR	SSC PAC : San Diego, CA	5.239	8.871	Oct 2016	35.555	Oct 2017	19.172	Oct 2018	-		19.172	0.000	68.837	-
Primary Hardware Development	WR	SSC PAC : San Diego, CA	2.833	8.648	Oct 2016	3.780	Oct 2017	1.500	Oct 2018	-		1.500	0.000	16.761	-
Software Development	WR	SSC PAC : San Diego, CA	8.723	19.329	Oct 2016	0.000		0.000		-		0.000	0.000	28.052	-
Integration Assembly & Test	C/CPFF	Unknown : Unknown	0.000	0.000		0.125	Jul 2018	15.937	Dec 2018	-		15.937	171.322	187.384	-
Software Development	WR	SSC LANT : Charleston, SC	0.504	1.131	Oct 2016	0.000		0.000		-		0.000	0.000	1.635	-
Government Technical Oversite (Dev)	WR	SSC LANT : Charleston, SC	0.126	0.283	Oct 2016	0.780	Oct 2017	0.800	Oct 2018	-		0.800	0.000	1.989	-
		Subtotal	17.425	38.262		40.240		37.409		-		37.409	171.322	304.658	N/A

Support (\$ in Million	ıs)			FY 2	2017	FY 2	2018	FY 2 Ba	2019 ise		2019 CO	FY 2019 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	Total Cost	Target Value of Contract
Development Support	C/CPFF	SAIC : Columbia, MD	0.600	0.688	Dec 2016	2.041	Feb 2018	1.741	Dec 2018	-		1.741	0.000	5.070	_
Development Support	WR	SSC LANT : Charleston, SC	0.150	0.150	Oct 2016	0.171	Oct 2017	0.171	Oct 2018	-		0.171	9.888	10.530	-
Integrated Logistics Support	WR	SSC LANT : Charleston, SC	0.250	0.250	Oct 2016	0.053	Oct 2017	0.053	Oct 2018	-		0.053	0.000	0.606	-
Integrated Logistics Support	C/CPFF	SAIC : Columbia, MD	0.720	0.825	Dec 2016	0.330	Feb 2018	0.330	Dec 2018	-		0.330	0.000	2.205	-
		Subtotal	1.720	1.913		2.595		2.295		-		2.295	9.888	18.411	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy Date: February 2018 Appropriation/Budget Activity R-1 Program Element (Number/Name) Project (Number/Name) 2227 I Distributed Common Ground System 1319 / 7 PE 0305208N I Distributed Common Ground Svs (DCGS-N) Inc 2 FY 2019 FY 2019 FY 2019 Test and Evaluation (\$ in Millions) FY 2017 FY 2018 Base oco Total Contract Target Method Performing Prior Award Award Award Award **Cost To** Total Value of **Cost Category Item** & Type **Activity & Location Years** Cost Date Date Cost Date Cost Date Complete Cost Contract Cost Cost Developmental Test & C/CPFF SAIC: Columbia, MD 0.000 0.417 Dec 2016 0.265 Feb 2018 0.265 Dec 2018 0.265 0.000 0.947 Evaluation Developmental Test & SSC LANT: WR 0.250 0.287 Oct 2016 0.240 Oct 2017 0.240 Oct 2018 0.240 4.416 5.433 Charleston, SC Evaluation Developmental Test & JITC: Fort Meade, C/CPFF 0.800 0.000 0.100 Dec 2017 Oct 2018 0.100 0.100 0.000 1.000 Evaluation MD Developmental Test & COTF: Norfolk, VA 0.420 Feb 2018 C/CPFF 0.200 0.186 Nov 2016 0.420 Nov 2018 0.420 0.000 1.226 Evaluation Subtotal 1 250 0.890 1.025 1 025 1.025 4.416 8 606 N/A FY 2019 FY 2019 FY 2019 Management Services (\$ in Millions) FY 2017 FY 2018 Base oco Total Contract Target Method **Cost To** Performing Prior Award Award Award Award Total Value of **Cost Category Item** & Type Activity & Location **Years** Cost Date Cost Date Cost Date Cost Date Cost Complete Cost Contract SPAWAR · San Travel Allot 0.100 0.256 Nov 2016 0.240 Nov 2017 0.240 Nov 2018 0.240 0.000 0.836 Diego, CA Government Engineering SSC LANT: WR 0.154 0.154 Nov 2016 0.200 Nov 2017 0.200 Nov 2018 0.200 0.000 0.708 Charleston SC Support Program Management C/CPFF BAH: San Diego, CA 0.270 0.909 Nov 2016 1.010 Feb 2018 0.940 Nov 2018 0.940 0.000 3.129 Support Program Management SSC LANT: WR 0.300 0.350 Oct 2016 0.290 Oct 2017 0.290 Oct 2018 0.290 8.165 9.395 Support Charleston, SC Program Management SSC PAC: San WR 0.200 0.200 Oct 2016 0.225 Oct 2017 0.225 Oct 2018 0.225 0.000 0.850 Support Diego, CA Subtotal 1.024 1.869 1.965 1.895 1.895 8.165 14.918 N/A Target Prior FY 2019 FY 2019 FY 2019 **Cost To** Total Value of FY 2017 FY 2018 oco **Years** Base Total Complete Cost Contract 21.419 **Project Cost Totals** 42.934 45.825 42.624 42.624 193.791 346.593 N/A Remarks

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xhibit R-4, RDT&E Schedu		ofile	: PB	2019	Nav	y																Da	ate: F	ebru	ary 2	018				
ppropriation/Budget Activ 319 / 7	vity										PE (208N		ent (N ribute))	222	7 I D		uted	Name Comi		Grour	nd Sy	ste		
EXHIBIT R4, Schedule Profile	DATE:																											_		
APPROPRIATION/BUDGET ACTIVITY		1-18 ECT NU	JMBER	AND N	IAME											\rightarrow														
RDT&E, N / BA-7						System	– Navy	(DCG	S-N)																					
Fiscal Year	2017				2018				2019	•			2020				2021				2021		2022				2023			
	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		
2227 DCGS-N Acquisition	-		_		-		-	 	_	+ ~		_	-		_	\rightarrow		_		_				_			-	_		
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Test & Evaluation Milestones			-		-	\vdash	-	-	-	+	\vdash	-	-	\vdash	-+	\rightarrow			DCC	S-IN III	2 FCI						-			
Trident Warrior / Empire Challenge			Ι.	TW/FoS		TW	/FoS	l		TW	/FoS	l		TW/	-				_			_	_				_			
Trident Warnor / Empire Challenge				W/Fos	Ì	'``		I		1 w	65	l		````	-05			1 TW.	/FoS			TW	FoS	ı		TW/	FoS			
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Development and Operational Test																	Inc 2 DT&E	Inc 2 IOT&												
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DCGS-N Increment 2															$^{\prime}$															
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Appropriation/Budget Activity 1319 / 7 R-1 Program Element (Number/Name) PE 0305208N / Distributed Common Ground Sys Project (Number/Name) 2227 / Distributed Common Ground Sys	ound System

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2227				
DCGS-N Inc 2 FCR-2 Build Decision (BD)	2	2018	2	2018
Integration Contract	4	2018	4	2018
DCGS-N Inc 2 FCR-1 Fielding Decision (FD)	2	2019	2	2019
DCGS-N Inc 2 FCR-3 Build Decision (BD)	2	2019	2	2019
DCGS-N Inc 2 FCR-2 Fielding Decision (FD)	2	2020	2	2020
DCGS-N Inc 2 FCR-4 Build Decision (BD)	3	2020	3	2020
DCGS-N Inc 2 FCR-3 Fielding Decision (FD)	2	2021	2	2021
DCGS-N Inc 2 FCR-5 Build Decision (BD)	3	2021	3	2021
DCGS-N Inc 2 FDDR	4	2021	4	2021
DCGS-N Inc 2 FCR-4 Fielding Decision (FD)	2	2022	2	2022
DCGS-N Inc 2 FCR-5 Fielding Decision (FD)	2	2023	2	2023
DCGS-N Inc 2 FCR-1 Development	1	2017	2	2018
DCGS-N Inc 2 FCR-2 Development	2	2018	2	2019
DCGS-N Inc 2 FCR-3 Development	2	2019	2	2020
DCGS-N Inc 2 FCR-4 Development	2	2020	2	2021
DCGS-N Inc 2 FCR-5 Development	2	2021	2	2022
Trident Warrior/DCGS Family of Systems (FoS) 2017	4	2017	4	2017
Trident Warrior/DCGS Family of Systems (FoS) 2018	2	2018	3	2018
DCGS-N Inc 2 FCR-1 Integrated Test	3	2018	4	2018
Trident Warrior/DCGS Family of Systems (FoS) 2019	2	2019	3	2019
DCGS-N Inc 2 FCR-2 Integrated Test	3	2019	4	2019

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy		Date: February 2018	
1	,	Project (Number/Name) 2227 I Distributed Common Ground Sy. (DCGS-N) Inc 2	stem

Events by Sub Project	S1	Start		End	
	Quarter	Year	Quarter	Year	
Trident Warrior/DCGS Family of Systems (FoS) 2020	2	2020	3	2020	
DCGS-N Inc 2 FCR-3 Integrated Test	3	2020	4	2020	
DCGS-N Inc 2 DT&E	1	2021	1	2021	
Trident Warrior/DCGS Family of Systems (FoS) 2021	2	2021	3	2021	
DCGS-N Inc 2 IOT&E	2	2021	2	2021	
DCGS-N Inc 2 FCR-4 Integrated Test	1	2022	2	2022	
Trident Warrior/DCGS Family of Systems (FoS) 2022	2	2022	3	2022	
DCGS-N Inc 2 Procurement	3	2020	4	2023	
Trident Warrior/DCGS Family of Systems (FoS) 2023	2	2023	3	2023	
DCGS-N Inc 2 FCR-5 Integrated Test	1	2023	2	2023	