Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy											Date: February 2018	
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*							
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**
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,

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.

Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy					Date: February 2018
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*		
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 Adjustments	-0.007	-	-	-	-

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 Justification: PB 2019 Navy											Date: February 2018	
Appropriation/Budget Activity 1319 / 7					R-1 Program Element (Number/Name) PE 0305208N / *Distributed Common Ground Sys*				Project (Number/Name) 2174 / *Distributed Common Ground System-Navy (DCGS-N)*			
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.

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*	**Project (Number/Name)** 2174 / *Distributed Common Ground System-Navy (DCGS-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	1.630	0.325	0.222	0.000	0.222
Articles:	-	-	-	-	-
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)

Line Item	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
• OPN 2914: *Distributed Common Ground System-Navy (DCGS-N)*	23.610	20.182	12.896	-	12.896	20.733	20.876	14.895	25.692	234.735	613.065

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.

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*	**Project (Number/Name)** 2174 / *Distributed Common Ground System-Navy (DCGS-N)*

Integration of DCGS-N Increment 1 components has transitioned from Government-led to Industry-led based on the award of DCGS-N Increment 1 Prime Mission Product (PMP) contract.

E. Performance Metrics

DCGS-N Increment 1 Goal: Meet national imagery standards.

DCGS-N Increment 1 Metric: Support development, integration and regression testing required to align with emerging national imagery standards.

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

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	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	Continuing
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)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	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 ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total 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

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

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total 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 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	205.211	1.630		0.325		0.222		-		0.222	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305208N / *Distributed Common Ground Sys*	Project (Number/Name) 2174 / *Distributed Common Ground System-Navy (DCGS-N)*	

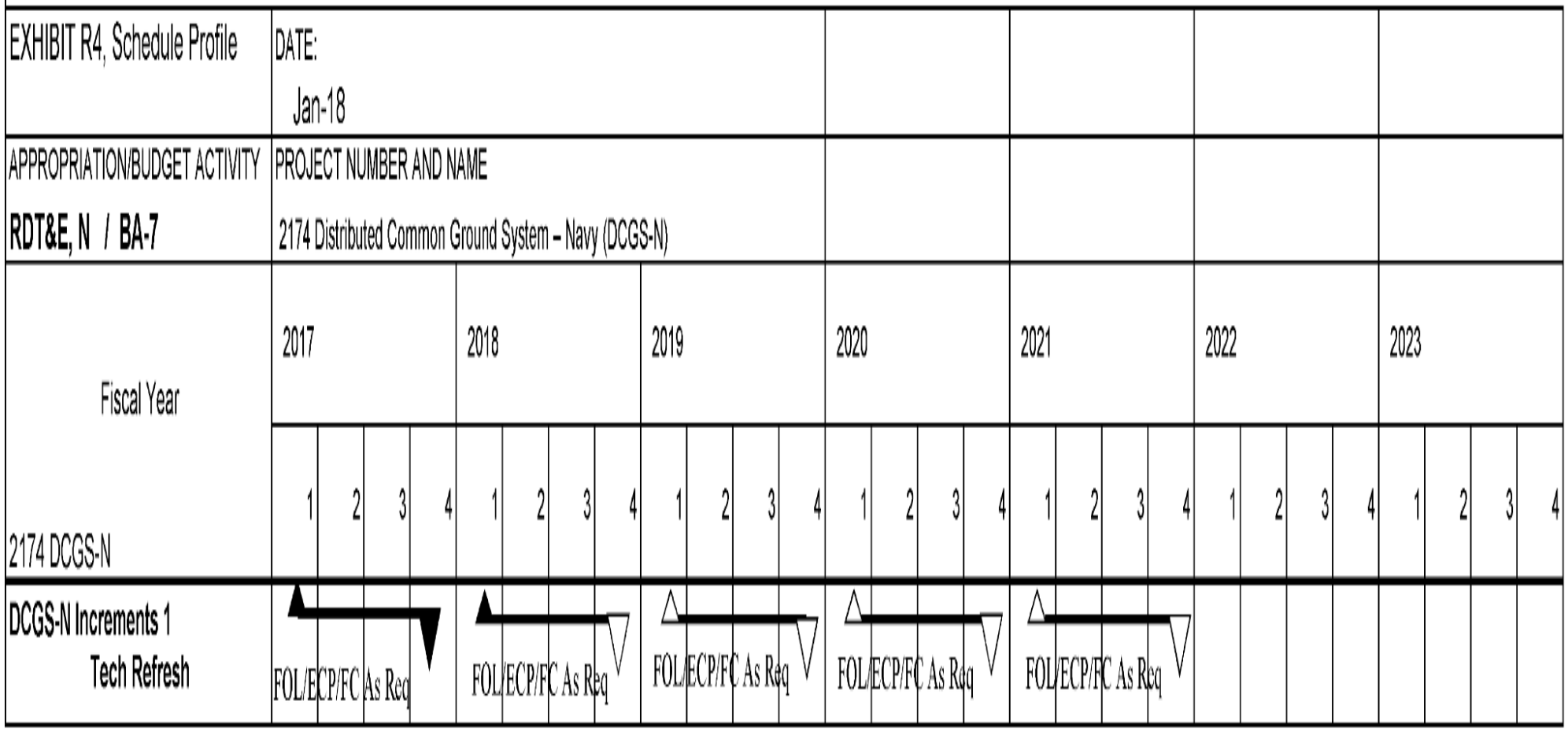

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305208N / *Distributed Common Ground Sys*	**Project (Number/Name)** 2174 / *Distributed Common Ground System-Navy (DCGS-N)*

Schedule Details

	Start		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 Justification: PB 2019 Navy											Date: February 2018	
Appropriation/Budget Activity 1319 / 7					R-1 Program Element (Number/Name) PE 0305208N / *Distributed Common Ground Sys*				Project (Number/Name) *2227 / Distributed Common Ground System (DCGS-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

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.

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*	**Project (Number/Name)** *2227 / Distributed Common Ground System (DCGS-N) Inc 2*

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:	-	1	1	-	1
FY 2018 Plans: 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					

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*	**Project (Number/Name)** *2227 / Distributed Common Ground System (DCGS-N) Inc 2*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
compatibility with Intelligence Community (IC) and the install and test of integrated capabilities. Distributed Common Ground System-Navy (DCGS-N) Increment 2 continues to develop statutory/regulatory acquisition and training documentation as required. ***FY 2019 Base Plans:*** 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 to develop a standard software baseline for the DCGS Family of Systems (FoS). DCGS-N Increment 2 will 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 develop one (1) unit for Initial Operational Test and Evaluation (IOT&E) hardware design and acquisition. 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. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** The FY19 funding profile shows a decrease from FY18, in reality, the funding level is in line with the FY18 requirement as it takes into consideration prior year execution.					
Accomplishments/Planned Programs Subtotals	42.934	45.825	42.624	0.000	42.624

C. Other Program Funding Summary ($ in Millions)

Line Item	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
• OPN 2914: *Distributed Common Ground System-Navy (DCGS-N)*	23.610	20.182	12.896	-	12.896	20.733	20.876	14.895	25.692	234.735	613.065

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*	**Project (Number/Name)** *2227 / Distributed Common Ground System (DCGS-N) Inc 2*

C. Other Program Funding Summary ($ in Millions)

Line Item	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

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

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).

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305208N / *Distributed Common Ground Sys*	Project (Number/Name) *2227 / Distributed Common Ground System (DCGS-N) Inc 2*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total 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 Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	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 1319 / 7	R-1 Program Element (Number/Name) PE 0305208N / *Distributed Common Ground Sys*	Project (Number/Name) *2227 / Distributed Common Ground System (DCGS-N) Inc 2*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	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	-
Developmental Test & Evaluation	WR	SSC LANT : Charleston, SC	0.250	0.287	Oct 2016	0.240	Oct 2017	0.240	Oct 2018	-		0.240	4.416	5.433	-
Developmental Test & Evaluation	C/CPFF	JITC : Fort Meade, MD	0.800	0.000		0.100	Dec 2017	0.100	Oct 2018	-		0.100	0.000	1.000	-
Developmental Test & Evaluation	C/CPFF	COTF : Norfolk, VA	0.200	0.186	Nov 2016	0.420	Feb 2018	0.420	Nov 2018	-		0.420	0.000	1.226	-
		Subtotal	1.250	0.890		1.025		1.025		-		1.025	4.416	8.606	N/A

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Travel	Allot	SPAWAR : San Diego, CA	0.100	0.256	Nov 2016	0.240	Nov 2017	0.240	Nov 2018	-		0.240	0.000	0.836	-
Government Engineering Support	WR	SSC LANT : Charleston, SC	0.154	0.154	Nov 2016	0.200	Nov 2017	0.200	Nov 2018	-		0.200	0.000	0.708	-
Program Management Support	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	-
Program Management Support	WR	SSC LANT : Charleston, SC	0.300	0.350	Oct 2016	0.290	Oct 2017	0.290	Oct 2018	-		0.290	8.165	9.395	-
Program Management Support	WR	SSC PAC : San Diego, CA	0.200	0.200	Oct 2016	0.225	Oct 2017	0.225	Oct 2018	-		0.225	0.000	0.850	-
		Subtotal	1.024	1.869		1.965		1.895		-		1.895	8.165	14.918	N/A

	Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	21.419	42.934		45.825		42.624		-		42.624	193.791	346.593	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305208N / *Distributed Common Ground Sys*	**Project (Number/Name)** *2227 / Distributed Common Ground System (DCGS-N) Inc 2*

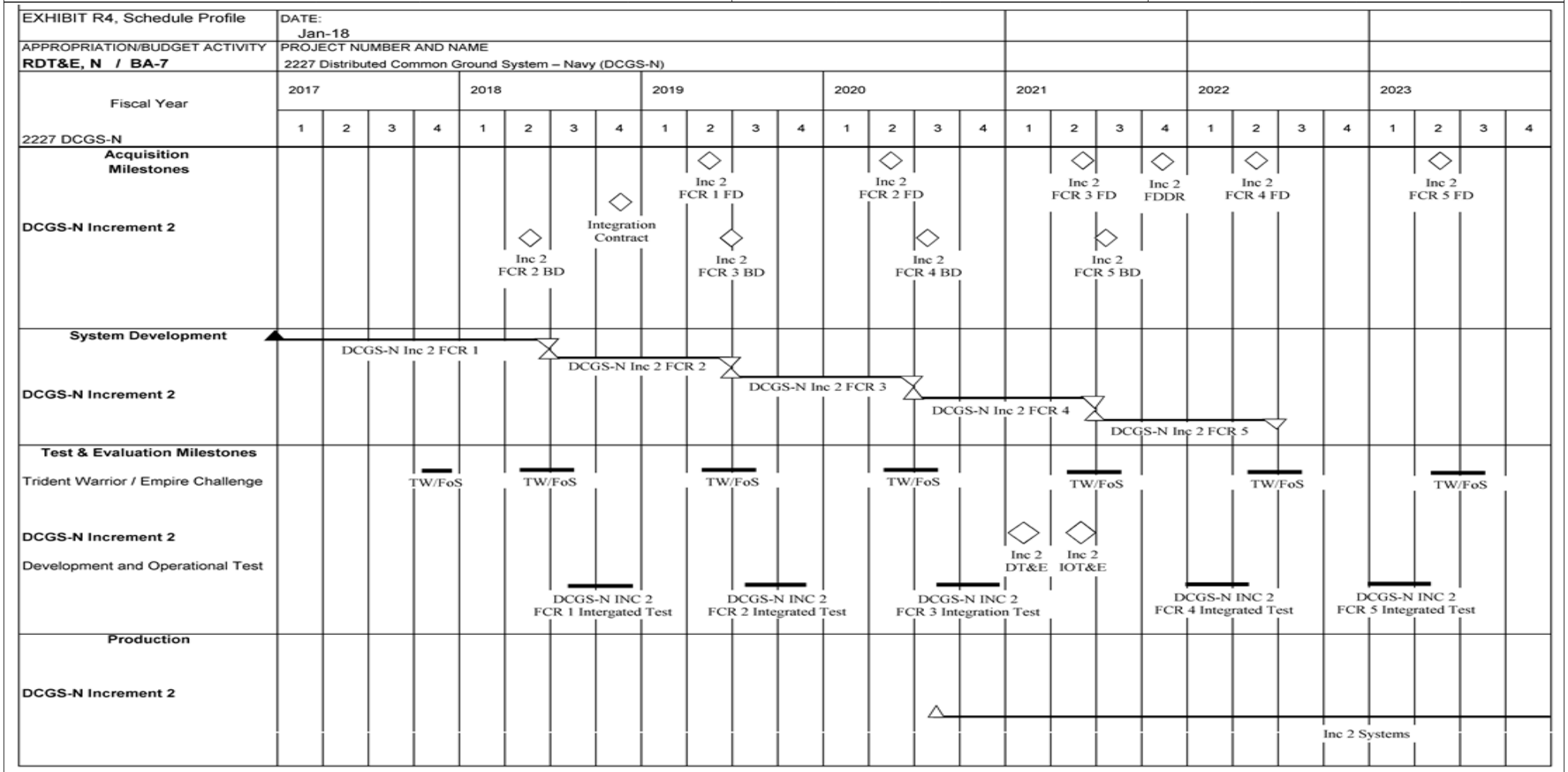

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305208N / *Distributed Common Ground Sys*	**Project (Number/Name)** 2227 / *Distributed Common Ground System (DCGS-N) Inc 2*

Schedule Details

	Start		End	
Events by Sub Project	**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

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*	**Project (Number/Name)** *2227 / Distributed Common Ground System (DCGS-N) Inc 2*

	Start		End	
Events by Sub Project	**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