Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Navy											Date: February 2016	
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 2015**	**FY 2016**	**FY 2017 Base**	**FY 2017 OCO**	**FY 2017 Total**	**FY 2018**	**FY 2019**	**FY 2020**	**FY 2021**	**Cost To Complete**	**Total Cost**
Total Program Element	185.335	18.146	23.149	44.571	-	44.571	36.301	36.542	29.761	36.624	Continuing	Continuing
2174: *Distributed Common Ground System-Navy (DCGS-N)*	185.335	18.146	1.730	1.637	-	1.637	0.319	0.351	0.269	0.275	Continuing	Continuing
2227: *Distributed Common Ground System (DCGS-N) Inc 2*	0.000	0.000	21.419	42.934	-	42.934	35.982	36.191	29.492	36.349	58.624	260.991
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-N 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 Work Station 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.

The DCGS-N system represents the integration of 1) The processing and exploitation of tactical and Imagery Intelligence (IMINT) and Signals Intelligence (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 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 development, integration, and testing of a Maritime ISR Enterprise

Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Navy	Date: February 2016
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*

capability, development and migration of ISR SOA applications, and development and integration to leverage a Common Computing Environment (CCE). Additionally, DCGS-N will become the focal point for migration of Maritime Domain Awareness (MDA) fusion and analysis (MFAS) tool applications for the 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 Intelligence, Surveillance and Reconnaissance (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 Tasking, Collection, Processing, Exploitation, and Dissemination (TCPED) capabilities to improve the use and analysis of sensor and platform data. Distributed Common Ground System- Navy (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 provides an enhanced Navy Intelligence, Surveillance and Reconnaissance (ISR) enterprise that converges and builds on the DCGS-N Increment 1 and Maritime Domain Awareness Enterprise Nodes; leverages the Defense Intelligence Information Enterprise (DI2E); is compliant with the Common Computing Environment (CCE); federates ISR and TCPED workflow and production improving throughput through automation; exploits new and evolving unmanned systems sensor data; provides Multi-Intelligence (Multi-INT) cross-queuing and modular tools. The second release 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.

Intelligence Carry-On Program (ICOP) is a suite of multi-source intelligence and analytical capabilities which includes an integrated Three-Dimensional (3-D) operational picture displaying intelligence and other data sources to provide a richer and more complete picture of the battle space on Unit Level platforms. The system supports a full motion video capability that receives, processes, exploits, and disseminates organic and non-organic data as well as the ability to process and correlate Electronic Intelligence (ELINT) and external Communications Intelligence (COMINT Externals). It integrates mature Commercial Off-the-Shelf (COTS) and Government Off-the-Shelf (GOTS) applications with shared storage and communication paths to reach back to the DCGS-N Enterprise Node (DEN), and it provides data sharing to the Maritime Operations Centers (MOC) and national ISR systems, making tactical users a part of the larger ISR enterprise.

In FY17, DCGS-N Increment 1 will support development, integration and regression testing required to align with emerging national imagery standards.

In FY17, DCGS-N Increment 2 will begin integration and development of Fleet Capability Release-1 (FCR-1) which will center on integrating Maritime Domain Awareness capabilities into DCGS-N Increment 2. DCGS-N Increment 2 will award the DCGS-N Increment 2 Enterprise Integration contract to support the Government Integrator in the completion of FCR-1 and integration and development of FCR-2 and beyond. The program will begin efforts to include In Progress Test Review and Build Technical Review for a FCR-2 Build Decision in FY18.

Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Navy					Date: February 2016
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 2015**	**FY 2016**	**FY 2017 Base**	**FY 2017 OCO**	**FY 2017 Total**
Previous President's Budget	18.146	33.149	37.737	-	37.737
Current President's Budget	18.146	23.149	44.571	-	44.571
Total Adjustments	0.000	-10.000	6.834	-	6.834
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-10.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	0.000	0.000	6.834	-	6.834

Change Summary Explanation

Technical: Not applicable.

Schedule: 1) DCGS-N Increment 2's development, milestones, and fielding have been updated to reflect a 6 month delay to Initial Operational Test and Evaluation (IOT&E).

2) ICOP Full Rate Production (FRP) was moved from 3 QTR of FY15 to 2 QTR of FY16.

Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy											Date: February 2016	
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 2015**	**FY 2016**	**FY 2017 Base**	**FY 2017 OCO**	**FY 2017 Total**	**FY 2018**	**FY 2019**	**FY 2020**	**FY 2021**	**Cost To Complete**	**Total Cost**
2174: *Distributed Common Ground System-Navy (DCGS-N)*	185.335	18.146	1.730	1.637	-	1.637	0.319	0.351	0.269	0.275	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-N 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 Work Station 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.

The DCGS-N system represents the integration of 1) The processing and exploitation of tactical and Imagery Intelligence (IMINT) and Signals Intelligence (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 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 development, integration, and testing of a Maritime ISR Enterprise capability, development and migration of ISR SOA applications, and development and integration to leverage a Common Computing Environment (CCE). Additionally, DCGS-N will become the focal point for migration of Maritime Domain Awareness (MDA) fusion and analysis (MFAS) tool applications for the Navy.

Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
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)*

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 Intelligence, Surveillance and Reconnaissance (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 Tasking, Collection, Processing, Exploitation, and Dissemination (TCPED) capabilities to improve the use and analysis of sensor and platform data. Distributed Common Ground System- Navy (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 provides an enhanced Navy Intelligence, Surveillance and Reconnaissance (ISR) enterprise that converges and builds on the DCGS-N Increment 1 and Maritime Domain Awareness Enterprise Nodes; leverages the Defense Intelligence Information Enterprise (DI2E); is compliant with the Common Computing Environment (CCE); federates ISR and TCPED workflow and production improving throughput through automation; exploits new and evolving unmanned systems sensor data; provides Multi-Intelligence (Multi-INT) cross-queuing and modular tools. The second release 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.

Intelligence Carry-On Program (ICOP) is a suite of multi-source intelligence and analytical capabilities which includes an integrated Three-Dimensional (3-D) operational picture displaying intelligence and other data sources to provide a richer and more complete picture of the battle space on Unit Level platforms. The system supports a full motion video capability that receives, processes, exploits, and disseminates organic and non-organic data as well as the ability to process and correlate Electronic Intelligence (ELINT) and external Communications Intelligence (COMINT Externals). It integrates mature Commercial Off-the-Shelf (COTS) and Government Off-the-Shelf (GOTS) applications with shared storage and communication paths to reach back to the DCGS-N Enterprise Node (DEN), and it provides data sharing to the Maritime Operations Centers (MOC) and national ISR systems, making tactical users a part of the larger ISR enterprise.

In FY17, DCGS-N Increment 1 will support development, integration and regression testing required to align with emerging national imagery standards.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: DCGS-N Increment 1	1.500	1.730	1.637	0.000	1.637
Articles:	-	-	-	-	-
FY 2015 Accomplishments: Completed correction of deficiencies to the Block 2 baseline based on results noted during Block 2 Development Testing and began Afloat Follow-On Test and Evaluation efforts.					
FY 2016 Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
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)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
DCGS-N Increment 1 to develop, integrate, and perform regression testing required to align with emerging national imagery standards. In addition, DCGS-N Increment 1 to complete any statutory and regulatory requirements needed to meet national imagery standards. ***FY 2017 Base Plans:*** DCGS-N Increment 1 will continue to develop, integrate, and perform regression testing required to align with emerging national imagery standards. In addition, DCGS-N Increment 1 will continue to complete any statutory and regulatory requirements needed to meet national imagery standards. ***FY 2017 OCO Plans:*** N/A					
Title: DCGS-N Increment 2 ***Articles:*** ***FY 2015 Accomplishments:*** Completed initial Joint Staff routing of the Increment 2 Information System Capability Development Document (IS CDD). Updated the Increment 2 Cost Analysis Requirements Description (CARD) to support the Service Cost Position (SCP) which was completed. Completed the Requirements Governance Board (RGB) charter and updated the DCGS-N Inc 2 Requirements Governance Board (DRGB). Conducted market research by conducting an Industry Day. Began Fleet Capability Release-0 (FCR-0) risk reduction efforts in support of the Program Executive Officer, Command, Control, Communications, Computers and Intelligence (PE0 C4I) prototype that will demonstrate critical Fleet high priority capabilities, such as High Side Data Fusion, Level 1 Data Fusion, and Modern Collection Management tools. ***FY 2016 Plans:*** DCGS-N Increment 2 moved to Project 2227 ***FY 2017 Base Plans:*** N/A ***FY 2017 OCO Plans:*** N/A	15.021 -	0.000 -	0.000 -	0.000 -	0.000 -
Title: Intelligence Carry-On Program (ICOP) ***Articles:*** ***FY 2015 Accomplishments:***	1.625 -	0.000 -	0.000 -	0.000 -	0.000 -

Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
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)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Completed Operational Testing; deemed operationally effective and suitable. Achieved Milestone C in 3Q FY15 and completed Guided Missile Destroyer (DDG) class platforms Topside analysis. Initiated and complete Topside Studies for LPD-17 and Guided Missile Cruiser (CG) class platforms. ***FY 2016 Plans:*** N/A ***FY 2017 Base Plans:*** N/A ***FY 2017 OCO Plans:*** N/A					
Accomplishments/Planned Programs Subtotals	18.146	1.730	1.637	0.000	1.637

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
• OPN 2914: *Distributed Common Ground System-Navy (DCGS-N)*	23.649	31.809	12.676	12.000	24.676	22.639	12.884	9.015	13.173	280.715	544.684

Remarks

0305208N/2914 is a shared PE with DCGS-N Increment 1, Increment 2, and ICOP

D. Acquisition Strategy

The Distributed Common Ground System - Navy (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. Integration of DCGS-N Increment 1 components has transitioned from Government-led to Industry-led based on the award of DCGS-N's Prime Mission Product (PMP) contract. Intelligence Carry-On Program (ICOP) utilizes mature COTS/GOTS with a focus on multi-source intelligence and analytical capabilities and unit-level Intelligence, Surveillance and Reconnaissance (ISR) processing, exploitation and dissemination for Surface operations, facilitating receipt, editing and sharing of imagery and video from aerial assets and shipboard cameras. ICOP utilizes the DCGS-N Enterprise Node (DEN) in order to ensure interoperability with the DCGS-N Family of Systems (FoS). ICOP builds on the Unit Level Rapid Technology Transition (RTT) prototypes.

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 2017 Navy			Date: February 2016
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 2015 Cost	FY 2015 Award Date	FY 2016 Cost	FY 2016 Award Date	FY 2017 Base Cost	FY 2017 Base Award Date	FY 2017 OCO Cost	FY 2017 OCO Award Date	FY 2017 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development Prior Years	Various	Various : Various	77.345	0.000		0.000		0.000		-		0.000	0.000	77.345	-
Systems Engineering	WR	SSC LANT : Charleston, SC	11.942	0.000		0.300	Oct 2015	0.265	Oct 2016	-		0.265	Continuing	Continuing	Continuing
Systems Engineering	C/CPFF	SETA SAIC : Columbia, MD	6.810	2.400	Dec 2014	0.000		0.000		-		0.000	0.000	9.210	-
Systems Engineering	WR	SSC PAC : San Diego, CA	8.236	2.791	Oct 2014	0.000		0.000		-		0.000	0.000	11.027	-
Primary Hardware Development	WR	SSC PAC : San Diego, CA	0.600	0.900	Oct 2014	0.000		0.000		-		0.000	0.000	1.500	-
Software Development	C/CPFF	BAE : Rancho Bernardo, CA	1.260	1.200	Jun 2015	0.000		0.000		-		0.000	0.000	2.460	-
Software Development	WR	SSC PAC : San Diego, CA	2.500	5.125	Oct 2014	0.000		0.000		-		0.000	0.000	7.625	-
Licenses	WR	SSC PAC : San Diego, CA	0.000	0.100	Oct 2014	0.000		0.000		-		0.000	0.000	0.100	-
Software Development	WR	SSC LANT : Charleston, SC	0.000	0.000		0.300	Oct 2015	0.265	Oct 2016	-		0.265	0.000	0.565	-
Government Technical Oversight (Dev)	WR	SSC LANT : Charleston, SC	0.000	0.000		0.100	Oct 2015	0.100	Oct 2016	-		0.100	0.000	0.200	-
		Subtotal	108.693	12.516		0.700		0.630		-		0.630	-	-	-

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2015 Cost	FY 2015 Award Date	FY 2016 Cost	FY 2016 Award Date	FY 2017 Base Cost	FY 2017 Base Award Date	FY 2017 OCO Cost	FY 2017 OCO Award Date	FY 2017 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Support Prior Years	Various	Various : Various	35.073	0.000		0.000		0.000		-		0.000	0.000	35.073	-
Development Support	C/CPFF	SETA SAIC : Columbia, MD	3.881	0.400	Dec 2014	0.000		0.000		-		0.000	0.000	4.281	-
Development Support	WR	SSC LANT : Charleston, SC	1.480	0.000		0.200	Oct 2015	0.185	Oct 2016	-		0.185	0.000	1.865	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy			Date: February 2016
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)*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2015 Cost	FY 2015 Award Date	FY 2016 Cost	FY 2016 Award Date	FY 2017 Base Cost	FY 2017 Base Award Date	FY 2017 OCO Cost	FY 2017 OCO Award Date	FY 2017 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Support	WR	SSC PAC : San Diego, CA	0.600	0.600	Oct 2014	0.000		0.000		-		0.000	0.000	1.200	-
Integrated Logistics Support	WR	SSC PAC : San Diego, CA	0.400	0.200	Oct 2014	0.000		0.000		-		0.000	0.000	0.600	-
Integrated Logistics Support	C/CPFF	SETA SAIC : Columbia, MD	1.050	0.400	Dec 2014	0.000		0.000		-		0.000	0.000	1.450	-
Configuration Management	WR	SSC PAC : San Diego, CA	1.000	0.300	Oct 2014	0.000		0.000		-		0.000	0.000	1.300	-
		Subtotal	43.484	1.900		0.200		0.185		-		0.185	0.000	45.769	-

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2015 Cost	FY 2015 Award Date	FY 2016 Cost	FY 2016 Award Date	FY 2017 Base Cost	FY 2017 Base Award Date	FY 2017 OCO Cost	FY 2017 OCO Award Date	FY 2017 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test & Evaluation Prior Years	Various	Various : Various	19.103	0.000		0.000		0.000		-		0.000	0.000	19.103	-
Developmental Test & Evaluation	WR	SSC LANT : Charleston, SC	2.247	0.200	Oct 2014	0.600	Oct 2015	0.600	Oct 2016	-		0.600	0.000	3.647	-
Operational Test & Evaluation	C/CPFF	COTF : Norfolk, VA	0.120	0.000		0.100	Jul 2016	0.100	Jul 2017	-		0.100	0.000	0.320	-
Developmental Test & Evaluation	WR	SSC PAC : San Diego, CA	1.800	1.700	Oct 2014	0.000		0.000		-		0.000	0.000	3.500	-
Developmental Test & Evaluation	C/CPFF	COTF : Norfolk, VA	0.300	0.400	Mar 2015	0.000		0.000		-		0.000	0.000	0.700	-
		Subtotal	23.570	2.300		0.700		0.700		-		0.700	0.000	27.270	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy		Date: February 2016
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 2015 Cost	FY 2015 Award Date	FY 2016 Cost	FY 2016 Award Date	FY 2017 Base Cost	FY 2017 Base Award Date	FY 2017 OCO Cost	FY 2017 OCO Award Date	FY 2017 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Management Services Prior Years	Various	Various : Various	3.374	0.000		0.000		0.000		-		0.000	0.000	3.374	-
Travel	Allot	SPAWAR : San Diego, CA	0.809	0.030	Nov 2014	0.020	Nov 2015	0.012	Nov 2016	-		0.012	0.000	0.871	-
Government Engineering Support	WR	SSC LANT : Charleston, SC	1.484	0.000		0.080	Nov 2015	0.080	Nov 2016	-		0.080	0.000	1.644	-
Program Management Support	C/CPFF	PSS BAH : San Diego, CA	3.921	1.400	Nov 2014	0.030	Nov 2015	0.030	Nov 2016	-		0.030	0.000	5.381	-
		Subtotal	9.588	1.430		0.130		0.122		-		0.122	0.000	11.270	-

	Prior Years	FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	185.335	18.146		1.730		1.637		-		1.637	-	-	-

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy		Date: February 2016
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)*

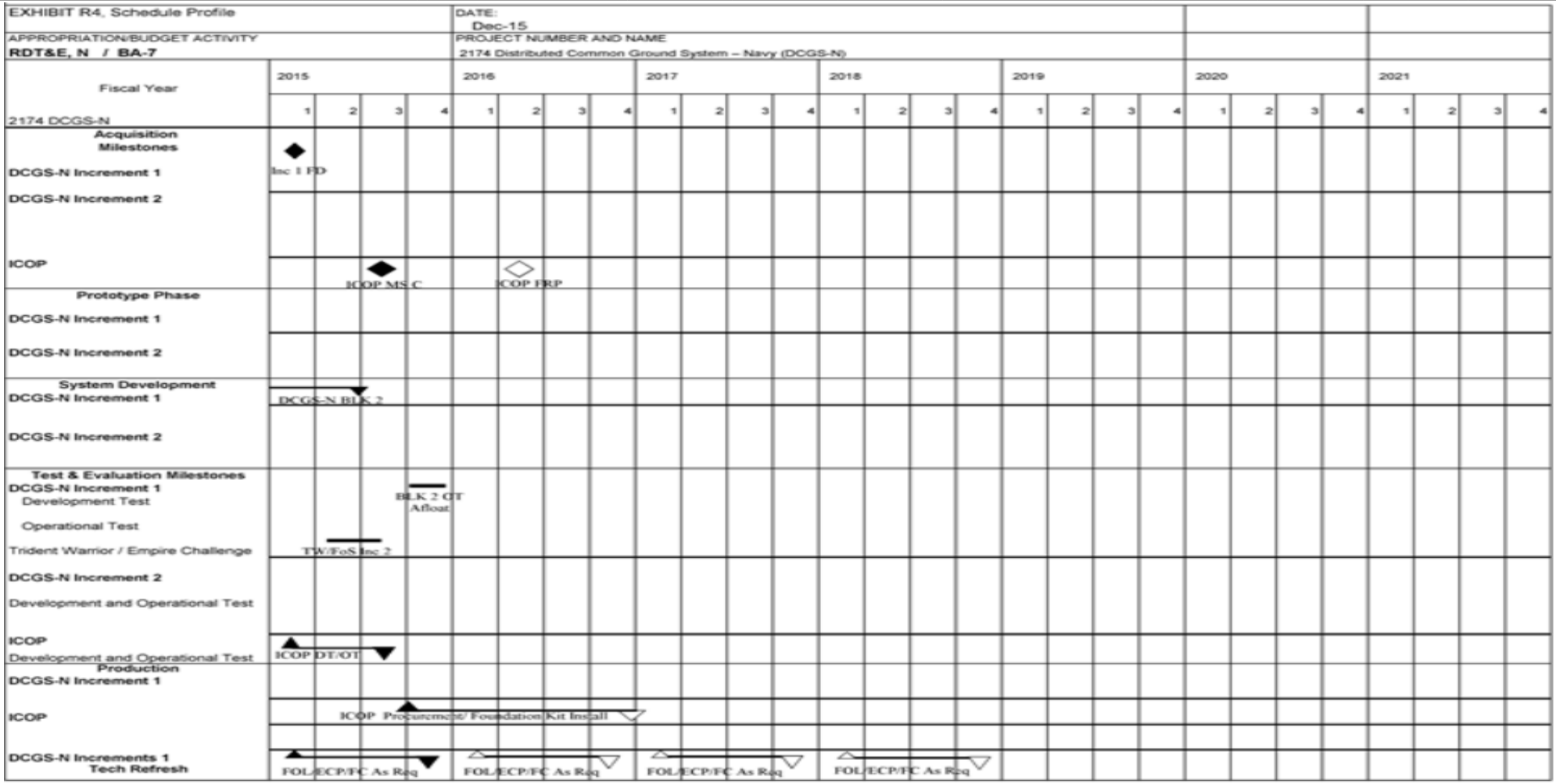

Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305208N / *Distributed Common Ground Sys*	**Project (Number/Name)** 2174 / *Distributed Common Ground System-Navy (DCGS-N)*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 2174				
Trident Warrior / DCGS Family of Systems Inc 2 2015	2	2015	3	2015
DCGS-N BLK 2 Development	1	2015	2	2015
DCGS-N Inc 1 FD	1	2015	1	2015
ICOP and Foundation Kit Procurement	3	2015	4	2016
DCGS-N BLK 2 OT AFLOAT	4	2015	4	2015
DCGS-N Inc 1 Tech Refresh	1	2015	4	2018
ICOP FRP	2	2016	2	2016
ICOP MS C	3	2015	3	2015
ICOP DT/OT	1	2015	3	2015

Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy			Date: February 2016
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COST ($ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
2227: *Distributed Common Ground System (DCGS-N) Inc 2*	0.000	0.000	21.419	42.934	-	42.934	35.982	36.191	29.492	36.349	58.624	260.991
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: M464

Note

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

A. Mission Description and Budget Item Justification

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 Intelligence, Surveillance and Reconnaissance (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. Distributed Common Ground System- Navy (DCGS-N) Increment 2 will deliver all source fusion and analytical capabilities; provide Maritime Domain Awareness (MDA) capabilities and integrate Tasking, Collection, Processing, Exploitation, and Dissemination (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 provides an enhanced Navy Intelligence, Surveillance and Reconnaissance (ISR) enterprise that converges and builds on the DCGS-N Increment 1 and Maritime Domain Awareness Enterprise Nodes; leverages the Defense Intelligence Information Enterprise (DI2E); is compliant with the Common Computing Environment (CCE); federates ISR and TCPED workflow and production improving throughput through automation; exploits new and evolving unmanned systems sensor data; provides Multi-Intelligence (Multi-INT) cross-queuing and modular tools. The second release 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 FY17, DCGS-N Increment 2 will begin integration and development of Fleet Capability Release-1 (FCR-1) which will center on integrating Maritime Domain Awareness capabilities into DCGS-N Increment 2. DCGS-N Increment 2 will award the DCGS-N Increment 2 Enterprise Integration contract to support the Government Integrator in the completion of FCR-1 and integration and development of FCR-2 and beyond. The program will begin efforts to include In Progress Test Review and Build Technical Review for a FCR-2 Build Decision in FY18.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: DCGS-N Increment 2	0.000	21.419	42.934	0.000	42.934
Articles:	-	-	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
FY 2015 Accomplishments: N/A ***FY 2016 Plans:*** DCGS-N Increment 2 to complete Joint Requirements Oversight Counsel (JROC) review and approval of the Information System Capability Development Document (IS CDD) and complete the Test and Evaluation Master Plan (TEMP) and other acquisition documentation needed to achieve Milestone B. Program will conduct engineering reviews in accordance with agile development methodologies and develop Fleet Capability Release-0 (FCR-0) in support of the Program Executive Officer, Command, Control, Communications, Computers and Intelligence (PEO C4I) prototype. DCGS-N Increment 2 will participate in a Development Request for Proposal (RFP) Decision Review and release the RFP in support of the development contract and begin FCR 1 development efforts. ***FY 2017 Base Plans:*** DCGS-N Increment 2 will begin integration and development of FCR-1 which will center on integrating Maritime Domain Awareness capabilities into DCGS-N Increment 2. Other development efforts include surface picture correlation with limited data sources, recognition of patterns from a track's history, automated collection target area prediction, high side track management. DCGS-N Increment 2 will award the DCGS-N Increment 2 Enterprise Integration contract to support the Government Integrator in the completion of FCR-1 and integration and development of FCR-2 and beyond. The DCGS-N Increment 2 Requirements Governance Board (DRGB) will meet to approve the Requirements Definition Package (RDP) for FCR-2. The program will begin efforts to include In Progress Test Review and Build Technical Review for a FCR-2 Build Decision in FY18 ***FY 2017 OCO Plans:*** N/A					
Accomplishments/Planned Programs Subtotals	0.000	21.419	42.934	0.000	42.934

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
• 0305208N/2914: *Distributed Common Ground System-Navy*	23.649	31.809	12.676	12.000	24.676	22.639	12.884	9.015	13.173	280.715	728.716

Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost

Remarks

0305208N/2914 is a shared PE with DCGS-N Increment 1, Increment 2, and ICOP

D. Acquisition Strategy

The 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 and Reconnaissance (ISR) capability, satisfying maritime needs for processing, exploitation, and dissemination.
DCGS-N Increment 2 Metric: Begin integration and development of Fleet Capability Release-1 (FCR-1).

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy			Date: February 2016
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 2015 Cost	FY 2015 Award Date	FY 2016 Cost	FY 2016 Award Date	FY 2017 Base Cost	FY 2017 Base Award Date	FY 2017 OCO Cost	FY 2017 OCO Award Date	FY 2017 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Hardware Development	C/CPFF	Unknown : Unknown	0.000	0.000		1.030	Mar 2016	2.305	Mar 2017	-		2.305	0.000	3.335	-
Primary Hardware Development	WR	SSC PAC : San Diego, CA	0.000	0.000		2.833	Oct 2015	6.343	Oct 2016	-		6.343	0.000	9.176	-
Software Development	WR	SSC PAC : San Diego, CA	0.000	0.000		8.723	Oct 2015	19.329	Oct 2016	-		19.329	0.000	28.052	-
Software Development	C/CPFF	Unknown : Unknown	0.000	0.000		3.929	Mar 2016	8.798	Mar 2017	-		8.798	201.482	214.209	-
Software Development	WR	SSC LANT : Charleston, SC	0.000	0.000		0.504	Oct 2015	1.131	Oct 2016	-		1.131	0.000	1.635	-
Government Technical Oversite (Dev)	WR	SSC LANT : Charleston, SC	0.000	0.000		0.126	Oct 2015	0.283	Oct 2016	-		0.283	0.000	0.409	-
		Subtotal	0.000	0.000		17.145		38.189		-		38.189	201.482	256.816	-

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2015 Cost	FY 2015 Award Date	FY 2016 Cost	FY 2016 Award Date	FY 2017 Base Cost	FY 2017 Base Award Date	FY 2017 OCO Cost	FY 2017 OCO Award Date	FY 2017 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Support	C/CPFF	SETA SAIC : Columbia, MD	0.000	0.000		0.600	Dec 2015	0.688	Dec 2016	-		0.688	0.000	1.288	-
Development Support	WR	SSC LANT : Charleston, SC	0.000	0.000		0.150	Oct 2015	0.150	Oct 2016	-		0.150	13.622	13.922	-
Integrated Logistics Support	WR	SSC LANT : Charleston, SC	0.000	0.000		0.250	Oct 2015	0.250	Oct 2016	-		0.250	0.000	0.500	-
Integrated Logistics Support	C/CPFF	SETA SAIC : Columbia, MD	0.000	0.000		0.720	Dec 2015	0.825	Dec 2016	-		0.825	0.000	1.545	-
		Subtotal	0.000	0.000		1.720		1.913		-		1.913	13.622	17.255	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy			Date: February 2016
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 2015 Cost	FY 2015 Award Date	FY 2016 Cost	FY 2016 Award Date	FY 2017 Base Cost	FY 2017 Base Award Date	FY 2017 OCO Cost	FY 2017 OCO Award Date	FY 2017 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	SSC LANT : Charleston, SC	0.000	0.000		0.250	Oct 2015	0.287	Oct 2016	-		0.287	15.416	15.953	-
Developmental Test & Evaluation	WR	SSC PAC : San Diego, CA	0.000	0.000		0.800	Oct 2015	0.917	Oct 2016	-		0.917	0.000	1.717	-
Developmental Test & Evaluation	C/CPFF	COTF : Norfolk, VA	0.000	0.000		0.400	Nov 2015	0.459	Nov 2016	-		0.459	0.000	0.859	-
		Subtotal	0.000	0.000		1.450		1.663		-		1.663	15.416	18.529	-

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2015 Cost	FY 2015 Award Date	FY 2016 Cost	FY 2016 Award Date	FY 2017 Base Cost	FY 2017 Base Award Date	FY 2017 OCO Cost	FY 2017 OCO Award Date	FY 2017 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Travel	Allot	SPAWAR : San Diego, CA	0.000	0.000		0.180	Nov 2015	0.206	Nov 2016	-		0.206	0.000	0.386	-
Government Engineering Support	WR	SSC LANT : Charleston, SC	0.000	0.000		0.154	Nov 2015	0.154	Nov 2016	-		0.154	0.000	0.308	-
Program Management Support	C/CPFF	PSS BAH : San Diego, CA	0.000	0.000		0.270	Nov 2015	0.309	Nov 2016	-		0.309	0.000	0.579	-
Program Management Support	WR	SSC LANT : Charleston, SC	0.000	0.000		0.300	Oct 2015	0.300	Oct 2016	-		0.300	8.847	9.447	-
Program Management Support	WR	SSC PAC : San Diego, CA	0.000	0.000		0.200	Oct 2015	0.200	Oct 2016	-		0.200	0.000	0.400	-
		Subtotal	0.000	0.000		1.104		1.169		-		1.169	8.847	11.120	-

	Prior Years	FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.000		21.419		42.934		-		42.934	239.367	303.720	-

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy		Date: February 2016
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*

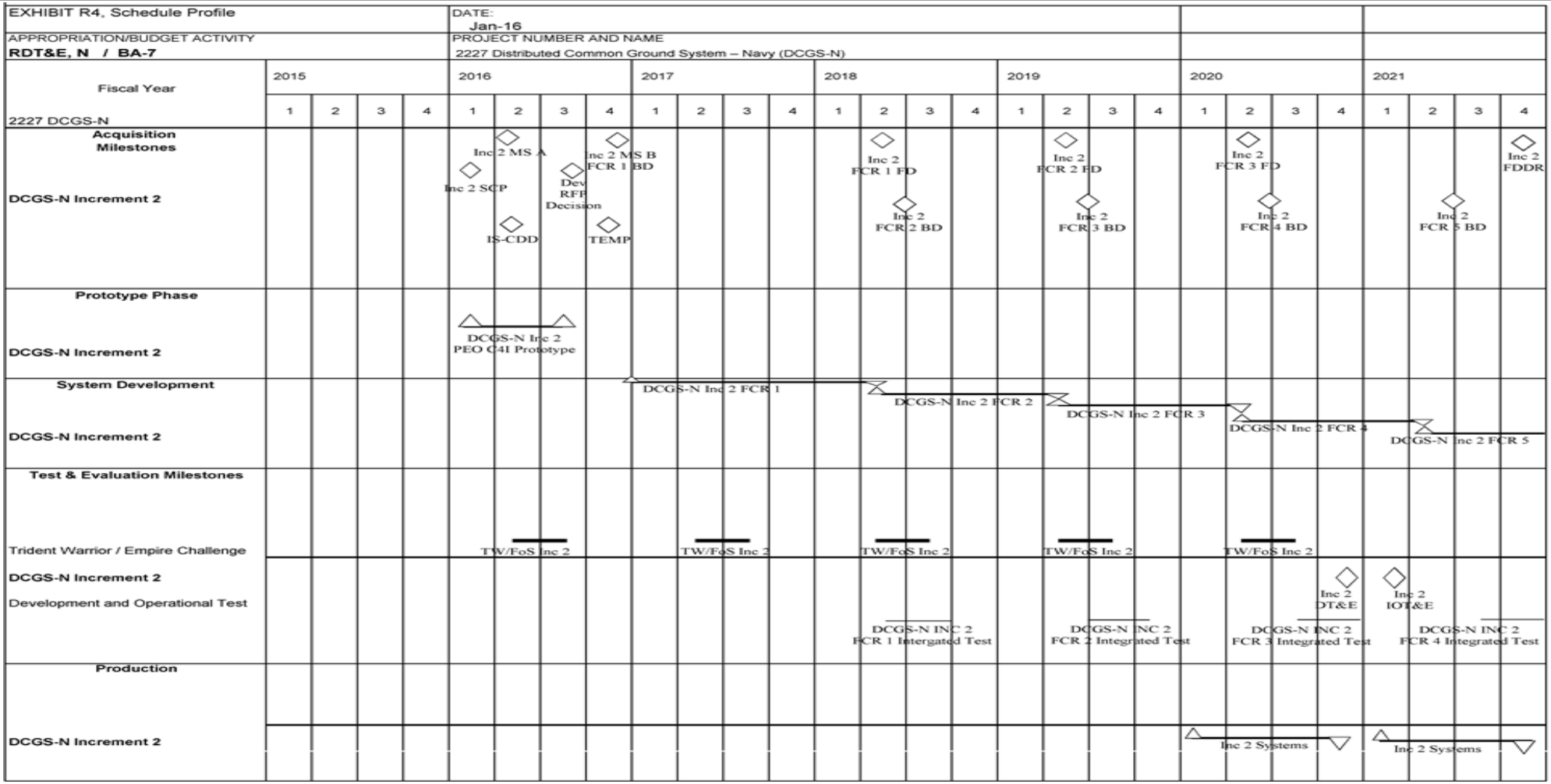

Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305208N / *Distributed Common Ground Sys*	**Project (Number/Name)** *2227 / Distributed Common Ground System (DCGS-N) Inc 2*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 2227				
Trident Warrior/DCGS Family of Systems Inc 2 2016	2	2016	3	2016
Trident Warrior/DCGS Family of Systems Inc 2 2017	2	2017	3	2017
Trident Warrior/DCGS Family of Systems Inc 2 2018	2	2018	3	2018
Trident Warrior/DCGS Family of Systems Inc 2 2019	2	2019	3	2019
Trident Warrior/DCGS Family of Systems Inc 2 2020	2	2020	3	2020
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 Release 1 Build Decision (MS B)	4	2016	4	2016
DCGS-N Inc 2 Procurement	1	2020	4	2021
DCGS-N Inc 2 FCR-1 Fielding Decision	2	2018	2	2018
DCGS-N Inc 2 FCR-2 Build Decision	2	2018	2	2018
DCGS-N Inc 2 FCR-3 Build Decision	2	2019	2	2019
DCGS-N Inc 2 IOT&E	1	2021	1	2021
DCGS-N Inc 2 FCR-2 Fielding Decision	2	2019	2	2019
DCGS-N Inc 2 FCR-3 Fielding Decision	2	2020	2	2020
DCGS-N Inc 2 FCR-0 PEO C4I Prototype	1	2016	3	2016
DCGS-N Inc 2 FCR-1 Integrated Test DT/OA	2	2018	3	2018
DCGS-N Inc 2 FCR-2 Integrated Test DT/OA	3	2019	4	2019
DCGS-N Inc 2 FCR-3 Integrated Test DT/OA	3	2020	4	2020
DCGS-N Inc 2 FCR-4 Development	2	2020	2	2021

Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy		Date: February 2016
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**
DCGS-N Inc 2 FCR-4 Build Decision	2	2020	2	2020
DCGS-N Inc 2 TEMP	4	2016	4	2016
DCGS-N Inc 2 IS-CDD	2	2016	2	2016
DCGS-N Inc 2 DEV RFP Decision	3	2016	3	2016
DCGS-N Inc 2 SCP	1	2016	1	2016
DCGS-N Inc 2 FDDR	4	2021	4	2021
DCGS-N Inc 2 FCR-5 Build Decision	2	2021	2	2021
DCGS-N Inc 2 FCR-5 Development	2	2021	4	2021
DCGS-N Inc 2 MS A	2	2016	2	2016
DCGS-N Inc 2 DT&E	4	2020	4	2020