Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy	Date: February 2018
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0305208M / *(U)Distributed Common Ground/Surface Systems*

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	71.870	2.079	12.867	7.687	-	7.687	9.065	4.604	4.619	4.669	Continuing	Continuing
2268: *Distributed Common Ground System (DCGS-MC)*	71.870	2.079	12.867	7.687	-	7.687	9.065	4.604	4.619	4.669	Continuing	Continuing

A. Mission Description and Budget Item Justification

DCGS-MC, in compliance with the Department of Defense DCGS Family of Systems (FOS) concept, is a service-level effort to migrate select USMC Intelligence, Surveillance and Reconnaissance (ISR) processing and exploitation capabilities into a single, integrated, net-centric baseline that will be interoperable with other services and agencies.

Multiple functional capability sets will be configured to support Marine intelligence analysts across the Marine Air-Ground Task Force (MAGTF). The goal of DCGS-MC is to make external and internal ISR data more visible, accessible, and understandable.

B. Program Change Summary ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	2.100	12.867	3.947	-	3.947
Current President's Budget	2.079	12.867	7.687	-	7.687
Total Adjustments	-0.021	0.000	3.740	-	3.740
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.011	0.000			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	3.836	-	3.836
• Rate/Misc Adjustments	0.000	0.000	-0.096	-	-0.096
• Congressional General Reductions Adjustments	-0.010	-	-	-	-

Change Summary Explanation

The decrease of $5.180M from FY18 to FY19 is due to the completion of the Operating System (Win10) upgrade and integration, testing, and certification of Joint Strike Fighter (JSF) requirements, National Geospatial Intelligence Agency's (NGA) iStore software; geospatial intelligence (GEOINT) capabilities; and Aeronautical Reconnaissance Coverage Geographic Information System (ArcGIS) Portal within the DCGS-MC Programs of Record. Additionally, funding supported the completion of initiation and test efforts for Tactical Exploitation Group (TEG) and Topographic Production Capability (TPC) assets in support of JSF

squadrons in order to capture increased data sensing capability with newer aviation platforms. Funding also supported the completion of system requirement analysis and review for future software releases to include All Source Fusion (ASF) and Signals Intelligence (SIGINT).

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 0305208M / *(U)Distributed Common Ground/Surface Systems*				**Project (Number/Name)** 2268 / *Distributed Common Ground System (DCGS-MC)*			
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**
2268: *Distributed Common Ground System (DCGS-MC)*	71.870	2.079	12.867	7.687	-	7.687	9.065	4.604	4.619	4.669	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Distributed Common Ground/Surface System Marine Corps (DCGS-MC) is a Family of Systems (FoS) providing analysis and production within garrison and deployed Marine Corps organizations. DCGS-MC will comply with the Department of Defense (DoD) DCGS Enterprise interoperability and information sharing requirements by migrating select processing, exploitation, analysis, and production capabilities into a single, integrated, net-centric baseline within the Marine Corps Intelligence, Surveillance and Reconnaissance Enterprise (MCISRE). This baseline will enable MCISRE analysts to deliver tactically focused, operational and strategic intelligence at the tactical edge throughout all phases of operations and will provide relevant, precise decision support for Joint Task Force (JTF), Marine Air Ground Task Force (MAGTF), and subordinate Marine units. The DoD DCGS Enterprise provides worldwide garrison, and forward projection of tactical ISR capabilities at the Joint Task Force (JTF) level and below. The DoD DCGS Enterprise enhances intelligence sharing within the Joint Services, the Intelligence Community, and Coalition Forces throughout all phases of operations. Each individual Military Service DCGS Program of Record provides unique and distinct capabilities to the overall DoD DCGS Enterprise. The DCGS-MC FoS currently consists of Enterprise DCGS Integration Backbone Services (EDS), Tactical Exploitation Group (TEG), Virtual Imagery Processing - Marine Corps (VIP-MC), and Topographic Production Capability (TPC). These capabilities will provide the USMC Geospatial Intelligence (GEOINT) analysts with the ability to process, disseminate, exploit, analyze, and produce intelligence for discoverability via EDS on the DCGS Integrated Backbone (DIB). Future enhancements will include All Source Fusion (ASF) and Signals Intelligence (SIGINT) capabilities. The specific content of each enhancement will be determined by an integrated assessment of user needs, technology readiness, risk mitigation, and affordability.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	**FY 2017**	**FY 2018**	**FY 2019 Base**	**FY 2019 OCO**	**FY 2019 Total**
Title: Test and Evaluation	1.954	8.683	5.041	0.000	5.041
Articles:	-	-	-	-	-
FY 2018 Plans: - Continue Post Milestone C System Engineering Test Review (SETR) activities associated with DCGS-MC Capability Drops, software integration and associated test events. - Continue test efforts in support of commonality of HW/SW baselines across GEOINT systems, such as DCGS-MC, VIPMC, TEG-RWS and TPC. - Continue Cyber Security Test Events to maintain system security postures. - Continue Operating System (Win10) upgrade integration into DCGS-MC GEOINT Systems.					

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 0305208M / *(U)Distributed Common Ground/Surface Systems*	**Project (Number/Name)** 2268 / *Distributed Common Ground System (DCGS-MC)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
- Initiate integration and interoperability testing of a Joint Worldwide Intelligence Communications System (JWICS) Secret Internet Protocol Router Network (SIPRNet) Cross Doman Solution (CDS) that will be part of the DCGS portfolio Approved Acquisition Objective and facilitate the ability to share higher level intelligence to a broader audience for analysis and action. - Initiate Joint Strike Fighter (JSF) requirements, including initiation and test efforts for approximately 35 Tactical Exploitation Group (TEG) and 18 Topographic Production Capability (TPC) assets in support of JSF squadrons in order to capture increased data sensing capability with newer aviation platforms. - Initiate test events associated with GEOINT hardware refresh. - Initiate test events associated with Imagery hardware refresh. - Initiate software and hardware consolidation studies to support the development of the Common GEOINT Server. - Initiate integration, testing and cyber security certification or NGA iStore Integrated Product Library software into DCGS-MC Programs of Record. - Initiate software development efforts to provide enhanced software capabilities within the current Enterprise DCGS Integration Backbone (DIB) Services (EDS) System baseline. - Initiate integration, test and cyber security certification efforts to integrate ArcGIS Portal within the DCGS-MC Programs of Record. - Initiate study to evaluate process to integrate Enterprise HUB (EHUB) capability into DCGS-MC.					
FY 2019 Base Plans: - Continue Post Milestone C SETR activities associated with DCGS-MC Capability Drops, software integration and associated test events. - Continue test efforts in support of commonality of HW/SW baselines across GEOINT systems, such as DCGS-MC, VIP-MC, TEG-RWS and TPC. - Continue Cyber Security Test Events to maintain system security postures. - Continue integration and interoperability testing of a JWICS SIPRNet CDS that will be part of the DCGS portfolio Approved Acquisition Objective (AAO) and facilitate the ability to share higher level intelligence to a broader audience for analysis and action. - Continue test events associated with GEOINT hardware refresh. - Continue test events associated with Imagery hardware refresh.					

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 0305208M / *(U)Distributed Common Ground/Surface Systems*	**Project (Number/Name)** 2268 / *Distributed Common Ground System (DCGS-MC)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
- Continue software and hardware consolidation studies to support the development of the Common GEOINT Server and Common Workstation. - Continue software development efforts to provide enhanced software capabilities within the current EDS System baseline. - Initiate integrating EHUB capability into DCGS-MC - Initiate integrating ASF capability into DCGS-MC. - Initiate integrating SIGINT capability into DCGS-MC. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** Decrease of $3.642M from FY18 to FY19 is attributed to the completion of the Win10 upgrade and integration, testing, and certification of JSF requirements, NGA iStore software; GEOINT capabilities; and ArcGIS Portal within the DCGS-MC Program of Record. Additionally, funds supported the completion of initiation and test efforts for TEG and TPC assets in support of JSF squadrons in order to capture increased data sensing capability with newer aviation platforms.					
Title: Management Services - Engineering and Technical Services	0.125	4.184	2.646	0.000	2.646
Articles:	-	-	-	-	-
FY 2018 Plans: - Continue support for systems engineering, interoperability analysis, acquisition planning, and systems integration expertise. - Continue support for research and development activities that impact the acquisition of military intelligence, surveillance, and reconnaissance systems. - Continue RTMs for all DCGS-MC requirements to KPPs, KSAs through systems and sub-systems specifications and requirements. - Continue support for program ECPs as necessary. - Continue systems requirements review and utilize DMO to refine all system requirements through the RDP. - Complete system requirement analysis and review for future software releases to include ASF and SIGINT. - Initiate DCGS-MC GEOINT support for software integration of applications such as ArcGIS Portal, iSTORE, Commercial Joint Mapping Toolkit (CJMTK), and Environment for Visualizing Images (ENVI). - Initiate support for DCGS-MC GEOINT software enhancements as identified through configuration control board and engineering review boards in response to OPFOR requirements.					

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 0305208M / *(U)Distributed Common Ground/Surface Systems*	**Project (Number/Name)** 2268 / *Distributed Common Ground System (DCGS-MC)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
- Initiate support for research and development activities to integrate ASF and SIGINT capability into DCGS-MC. ***FY 2019 Base Plans:*** -Continue support for systems engineering, interoperability analysis, acquisition planning, and systems integration expertise. - Continue support for research and development activities that impact the acquisition of military intelligence, surveillance, and reconnaissance systems. - Continue RTMs for all DCGS-MC requirements to KPPs, KSAs through systems and sub-systems specifications and requirements. - Continue support for program ECPs as necessary. - Continue systems requirements review and utilize DMO to refine all system requirements through the RDP. - Continue support for DCGS-MC GEOINT software enhancements as identified through configuration control board and engineering review boards in response to OPFOR requirements. - Continue support for research and development activities to integrate ASF capability into DCGS-MC. - Continue support for research and development activities to integrate SIGINT capability into DCGS-MC. - Initiate support for research and development activities to integrate garrison EHUB into DCGS-MC. - Initiate support for research and development activities to consolidate software and hardware for common GEOINT servers and workstations. - Complete DCGS-MC GEOINT support for software integration of applications such as ArcGIS Portal, iSTORE, CJMTK, and ENVI. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** The decrease of $1.538M from FY18 to FY19 is attributed to the completion of system requirement analysis and review for future software releases to include All Source Fusion (ASF) and Signals Intelligence (SIGINT).					
Accomplishments/Planned Programs Subtotals	2.079	12.867	7.687	0.000	7.687

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
• PMC 4767: *Distributed Common Ground System (DCGS-MC)*	12.531	13.462	16.081	-	16.081	16.792	14.230	12.883	15.279	Continuing	Continuing

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 0305208M / *(U)Distributed Common Ground/Surface Systems*	**Project (Number/Name)** 2268 / *Distributed Common Ground System (DCGS-MC)*

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

D. Acquisition Strategy

The Acquisition Strategy shall follow a hybrid approach consisting of a viable mix of alternatives that allows flexibility, agility and rapid fielding of new capabilities. An evolutionary acquisition approach will provide users with time-phased increments of capabilities that (while less than the full requirement), promote earlier delivery, improve affordability, and reduce risk. The evolutionary approach enables DCGS-MC to effectively assess and leverage emerging technologies to accelerate introduction into MCISRE. The DCGS-MC capabilities will be fielded in increments through operational capability drops.

E. Performance Metrics

-Quarterly Dashboard Input
-IOC

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 0305208M / *(U)Distributed Common Ground/Surface Systems*	**Project (Number/Name)** 2268 / *Distributed Common Ground System (DCGS-MC)*

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
DCGS PRIOR YEAR CUMULATIVE FUNDING	Various	N/A : N/A	55.765	0.000		0.000		0.000		-		0.000	0.000	55.765	-
		Subtotal	55.765	0.000		0.000		0.000		-		0.000	0.000	55.765	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
DCGS PRIOR YEAR CUMULATIVE FUNDING	Various	N/A : N/A	7.341	0.000		0.000		0.000		-		0.000	0.000	7.341	-
		Subtotal	7.341	0.000		0.000		0.000		-		0.000	0.000	7.341	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
DCGS PRIOR YEAR CUMULATIVE FUNDING	Various	N/A : N/A	4.054	0.000		0.000		0.000		-		0.000	0.000	4.054	-
DCGS Ctr Support	Various	SSCA : Charleston, SC	1.466	0.127	Nov 2016	4.059	Dec 2017	2.295	Dec 2018	-		2.295	Continuing	Continuing	Continuing
DCGS GEOINT	Various	NSWC Crane : Crane, IN	0.000	0.000		0.000		0.400	Nov 2018	-		0.400	0.000	0.400	-
EDS CDS Initial Capibility Enhancments	C/CPFF	SSCA : Charleston, SC	0.000	0.000		3.391	Dec 2017	0.000		-		0.000	0.000	3.391	-
DI2E Technical Services	WR	NSMA : Washington DC	0.000	0.300	Aug 2017	0.000		0.300	Aug 2019	-		0.300	0.000	0.600	-
DCGS Gov Support	WR	SSCA : Charleston, SC	1.466	0.123	Nov 2016	0.000		2.046	Dec 2018	-		2.046	0.000	3.635	-
TPC Integration	C/CPFF	NSWC Crane : Crane, IN	0.330	0.202	Nov 2016	0.500	Nov 2017	0.000		-		0.000	0.000	1.032	-

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 0305208M / *(U)Distributed Common Ground/Surface Systems*	**Project (Number/Name)** 2268 / *Distributed Common Ground System (DCGS-MC)*

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
Technical Engineering (SDL)	WR	NRL : Washington DC	0.000	1.202	Mar 2017	0.733	Nov 2017	0.000		-		0.000	0.000	1.935	-
		Subtotal	7.316	1.954		8.683		5.041		-		5.041	Continuing	Continuing	N/A

Remarks

Decrease of $3.642M from FY18 to FY19 in Test and Evaluation is attributed to the completion of multiple integration and certification test events as indicated in the R2A.

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
DCGS	MIPR	CECOM : Stafford, Va	1.418	0.125	Nov 2016	0.158	Oct 2017	0.300	Nov 2018	-		0.300	0.000	2.001	-
DCGS EDS	C/CPFF	SSCA : Charleston, SC	0.000	0.000		2.675	Dec 2017	0.926	Dec 2018	-		0.926	0.000	3.601	-
DCGS GEOINT	C/CPFF	SSCA : Charleston, SC	0.000	0.000		1.351	Dec 2017	1.420	Dec 2018	-		1.420	0.000	2.771	-
DCGS PRIOR YEAR CUMULATIVE FUNDING	Various	N/A : N/A	0.030	0.000		0.000		0.000		-		0.000	0.000	0.030	-
		Subtotal	1.448	0.125		4.184		2.646		-		2.646	0.000	8.403	N/A

Remarks

Decrease of $1.538M from FY18 to FY19 in Management Services is attributed to the completion of software releases as indicated in the R2A.

	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	71.870	2.079		12.867		7.687		-		7.687	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 0305208M / *(U)Distributed Common Ground/Surface Systems*	**Project (Number/Name)** 2268 / *Distributed Common Ground System (DCGS-MC)*

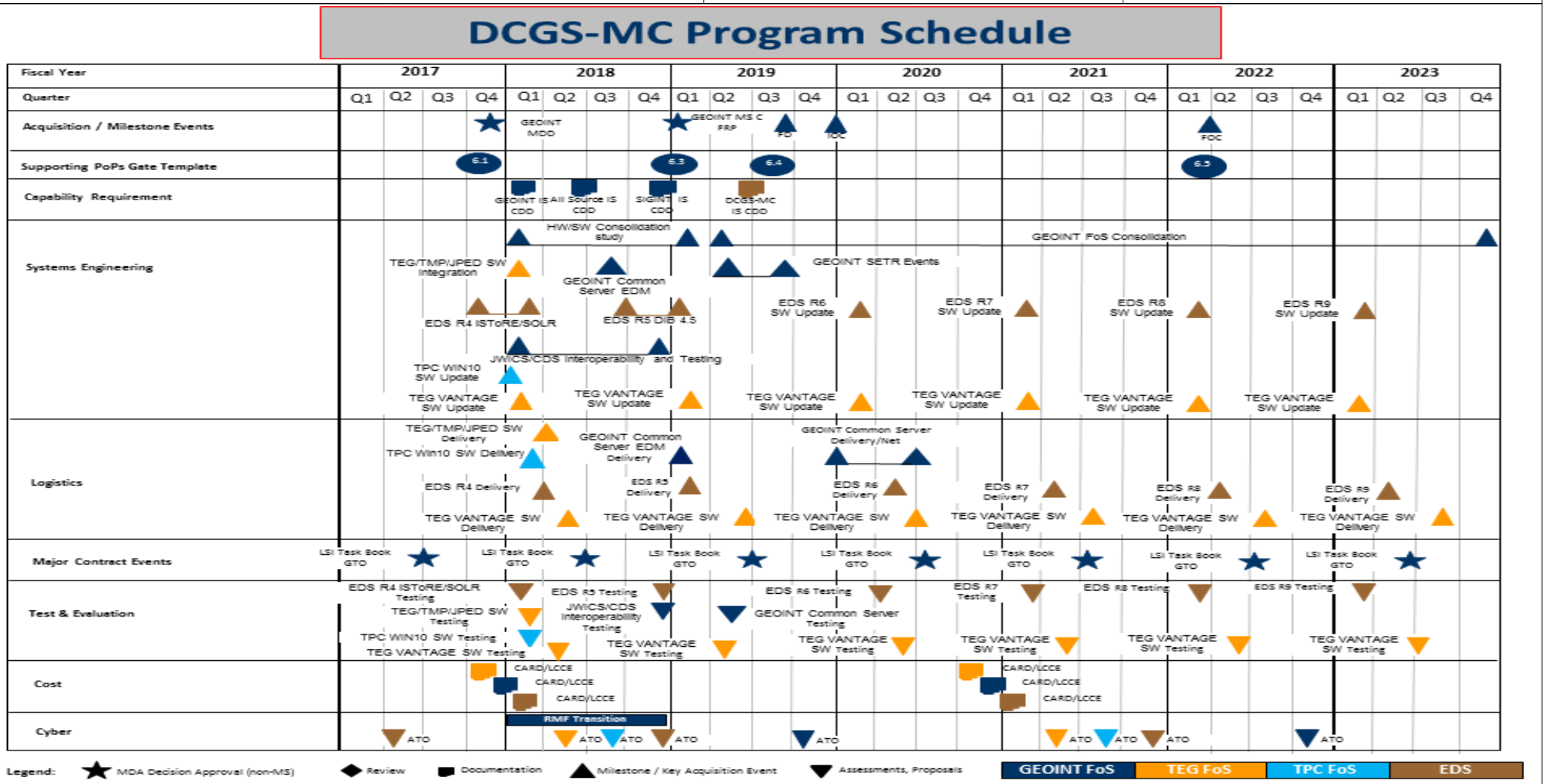

Exhibit R-4A, **RDT&E Schedule Details:** PB 2019 Navy		**Date:** February 2018
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305208M / *(U)Distributed Common Ground/Surface Systems*	**Project (Number/Name)** 2268 / *Distributed Common Ground System (DCGS-MC)*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 2268				
TPC FoS Software Delivery	1	2018	1	2018
JWICS/CDS Interoperability Testing	1	2018	4	2018
GEOINT MS C FRP	1	2019	1	2019
GEOINT Common Server Testing	2	2019	2	2019
GEOINT Fielding Decision	3	2019	3	2019
GEOINT Common Server Delivery/Net	1	2020	3	2020
GEOINT IOC	1	2020	1	2020