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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Navy **Date:** February 2015

Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0305208M I (U)Distributed Common Ground/Surface Systems							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	57.183	5.207	11.606	1.105	-	1.105	0.143	0.985	1.488	0.286	Continuing	Continuing
2268: Distributed Common Ground System (DCGS-MC)	57.183	5.207	11.606	1.105	-	1.105	0.143	0.985	1.488	0.286	Continuing	Continuing

Note

Effective FY 2014 the Increment II Advanced Analytics/All Source capability was realigned to Intelligence Analysis System (PE 0206625M). Effective FY 2015 the Joint Surveillance Target Attack Radar System (JSTARS) capability (PE 0206625M) is subsumed by DCGS-MC. Topographic Production Capability (TPC) Family of Systems (FOS) and Tactical Exploitation Group (TEG) Family of Systems (FOS) have merged into DCGS-MC. Funding for these efforts under PE 0206625M has been realigned to DCGS-MC PE 0305208M effective FY 2011.

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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	5.527	11.613	1.123	-	1.123
Current President's Budget	5.207	11.606	1.105	-	1.105
Total Adjustments	-0.320	-0.007	-0.018	-	-0.018
• Congressional General Reductions	-	-0.007			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.320	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	-	-	-0.018	-	-0.018

Change Summary Explanation

Funding increase from FY 2014 to FY 2015 supports Virtual Imagery Processor - Marine Corps (VIP-MC) engineering and manufacturing development and research, development and testing of geospatial intelligence (GEOINT) optimization efforts, hardware refresh and antenna optimization. The funding decrease

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from FY 2015 to FY 2016 is attributed to the completion of testing associated with Virtual Imagery Processor-Marine Corps (VIP-MC) hardware and software optimization, antenna optimization, Geodetic Survey Sets and integration into DCGS.		

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy										Date: February 2015		
Appropriation/Budget Activity 1319 / 7					R-1 Program Element (Number/Name) PE 0305208M I (U)Distributed Common Ground/Surface Systems				Project (Number/Name) 2268 I Distributed Common Ground System (DCGS-MC)			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
2268: Distributed Common Ground System (DCGS-MC)	57.183	5.207	11.606	1.105	-	1.105	0.143	0.985	1.488	0.286	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

Effective 2014 the Rapid Technology Insertion Efforts/All Source capability was realigned to Intelligence Analysis System (PE 0206625M). Effective FY 2015 the Joint Surveillance Target Attack Radar System (JSTARS) capability (PE 0206625M) is subsumed by DCGS-MC.

A. Mission Description and Budget Item Justification

Distributed Common Ground /Surface System-Marine Corps (DCGS-MC), in compliance with the Department of Defense DCGS Family of Systems 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. The funding decrease (\$10.501M) from FY2015 to FY2016 is attributed to the completion of testing associated with Virtual Imagery Processor-Marine Corps (VIP-MC) hardware and software optimization, antennae optimization, Geodetic Survey Set and integration into DCGS.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: Test and Evaluation	1.089	3.500	0.623	-	0.623
Articles:	-	-	-	-	-
FY 2014 Accomplishments: -Continued Developmental Testing in support of DCGS-MC GEOINT IOT&E initiatives. -Continued Developmental Testing in association with OUSD-I C4ISR related Exercises. -Completed VIP-MC field user evaluation -Initiated TEG prototype testing					
FY 2015 Plans: -Initiate Post Milestone C System Engineering Test Review (SETR) activities associated with DCGS-MC Engineering Change Proposals, software integration and associated test events. -Continue EDS-MC and VIP-MC test efforts to support commonality of HW/SW baselines.					

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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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
-Initiate testing of TEG and TPC Common hardware and software baseline. FY 2016 Base Plans: -Continue testing and information assurance assessments on major DCGS-MC/GEOINT FoS S/W updates. FY 2016 OCO Plans: N/A						
Title: Product Development Articles:		3.259 -	5.763 -	- -	- -	- -
FY 2014 Accomplishments: -Continued research and development efforts for DCGS-MC GEOINT capabilities. Expanded services and development associated with the Ozone Widget framework, DCGS-Enterprise StoreFront and Common Data Link (CDL) enhancements. -Continued research and development efforts associated with follow-on versions of the DCGS Integration Backbone (DIB). -Continued DCGS-MC CDL optimization and Human Systems Interface (HSI) analysis and refinement. Effective FY14 the Advanced Analytics/All Source capability was realigned to Intelligence Analysis System (PE 0206625M). -Continued to support architecture studies related to intelligence, surveillance, and reconnaissance activities and Virtual Rapid Prototyping Lab (VRPL), resulting in delivery of Full Motion Video Capability. -Initiated contribution to DCGS "enterprise" software development as a part of the DCGS enterprise core software FY 2015 Plans: -Continue development and optimization efforts for DCGS-MC GEOINT. -Expand services and development associated with the Ozone Widget framework, DCGS-Enterprise StoreFront and CDL enhancements. -Continue research and development efforts associated with follow-on versions of the DCGS Integration Backbone (DIB). -Continue DCGS-MC Common Data Link (CDL) optimization between Joint Surveillance Target Attack Radar System (JSTARS) and Tactical Wideband Interoperable Surface Terminal antennas (TWISTER). -Initiate development of Virtual Imagery Processor - Marine Corps (VIP-MC) hardware baseline commonality across the Enterprise DIB Services (EDS).						

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Appropriation/Budget Activity 1319 / 7		R-1 Program Element (Number/Name) PE 0305208M I (U)Distributed Common Ground/Surface Systems		Project (Number/Name) 2268 I Distributed Common Ground System (DCGS-MC)				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
-Initiate integration of future enhancements via capability drops into the current DCGS-MC software baseline. Effective FY 2015, JSTARS (PE 0206625M) capability is subsumed into DCGS-MC. -Develop EMD prototypes for Imagery workstation FY 2016 Base Plans: N/A FY 2016 OCO Plans: N/A								
Title: Management Services - Engineering and Technical Services Articles: FY 2014 Accomplishments: Continued system requirements analysis and review associated with DCGS-MC GEOINT Optimization Engineering Change Proposals (ECPs), Configuration Control Boards, and agile aligned Preliminary Design Review (PDR). FY 2015 Plans: -Continue requirements analysis that align to future enhancements with updated technology. -Continue ongoing software upgrades across all DCGS-GEOINT programs to ensure capability remains Information Assurance (IA) compliant. -Initiate Virtual Imagery Processor - Marine Corps (VIP-MC) Systems Verification Review (SVR) Product Readiness Review (PRR) Physical Configuration Audit (PCA) and Critical Design Review (CDR). -Initiate TEG FOS - Systems Verification Review (SVR), Product Readiness Review (PRR), Physical Configuration Audit (PCA) and Critical Design Review (CDR). FY 2016 Base Plans: N/A FY 2016 OCO Plans: N/A				0.276 -	0.300 -	- -	- -	- -
Title: Support Articles: FY 2014 Accomplishments:				0.583 -	2.043 -	0.482 -	- -	0.482 -

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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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
-Conducted DCGS-MC Common Data Link (CDL) optimization and Human Systems Interface (HSI) analysis and refinement. FY 2015 Plans: -Conduct DCGS-MC Common Data Link (CDL) optimization between JSTARS and TWISTER antenna. -Establish VIP-MC HW baseline using commonality across the EDS. -Continue system/engineering requirement analysis and review for future Capability Drops such as All Source Fusion and Signals Intelligence. FY 2016 Base Plans: -Will refine system requirements through government lab support. -Continue system/engineering requirement analysis and review for future Capability Drops such as All Source Fusion and Signals Intelligence. FY 2016 OCO Plans: N/A													
Accomplishments/Planned Programs Subtotals									5.207	11.606	1.105	-	1.105
C. Other Program Funding Summary (\$ in Millions)													
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost		
• PMC 4767: Distributed Common Ground System	11.392	20.620	1.947	-	1.947	2.168	7.976	13.005	12.878	-	83.113		
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 MCISR-E. The DCGS-MC capabilities will be fielded in increments through operational capability drops													
E. Performance Metrics													
-Milestone Assessment Team (MAT) Reviews 15 July 2014 and 18 Aug 2014													
-Quarterly Dashboard Input													

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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)
-IOT&E		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015			
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)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DCGS PRIOR YEAR CUMMULATIVE FUNDING	Various	N/A : N/A	18.676	-		-		-		-		-	-	18.676	-
DCGS	WR	NRL : Washington, DC	2.541	-		1.575	Feb 2015	-		-		-	Continuing	Continuing	Continuing
DCGS	WR	SSCA : Charleston, SC	26.658	0.819	Mar 2014	3.775	Jan 2015	-		-		-	Continuing	Continuing	Continuing
DCGS	C/FFP	MCSELMS : Quantico, VA	0.000	0.332	Apr 2014	-		-		-		-	-	0.332	-
DCGS	WR	NSWC : Crane, IN	0.000	0.550	Mar 2014	0.413	Jan 2015	-		-		-	-	0.963	-
DCGS	C/FFP	SSC-A : Charleston, SC	0.000	0.958	Aug 2014	-		-		-		-	-	0.958	-
DCGS	WR	DMO : Boston, MA	0.000	0.600	Jan 2014	-		-		-		-	-	0.600	-
Subtotal			47.875	3.259		5.763		-		-		-	-	-	-
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DCGS PRIOR YEAR CUMMULATIVE FUNDING	Various	N/A : N/A	2.202	-		-		-		-		-	-	2.202	-
DCGS	C/FFP	Seaport : Stafford, VA	0.779	0.583	Mar 2014	-		-		-		-	-	1.362	-
DCGS	C/FFP	SSCA : Charleston, SC	1.189	-		1.107	Feb 2015	-		-		-	-	2.296	-
DCGS	WR	SSC-P : San Diego, CA	0.000	-		0.616	Mar 2015	-		-		-	-	0.616	-
DCGS	C/FFP	DMO : Hanscom AFB, MA	0.000	-		0.320	Feb 2015	0.175	Feb 2016	-		0.175	-	0.495	-
DCGS	C/BA	SDL : Logan, Utah	0.000	-		-		0.307	Nov 2015	-		0.307	-	0.307	-

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Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			4.170	0.583		2.043		0.482		-		0.482	-	7.278	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DCGS PRIOR YEAR CUMMULATIVE FUNDING	Various	N/A : N/A	2.418	-		-		-		-		-	-	2.418	-
DCGS	WR	NRL : Washington, DC	0.625	0.600	Feb 2014	-		0.208	Dec 2015	-		0.208	-	1.433	-
DCGS	C/FFP	SSCA : Charleston, SC	1.297	0.190	Jun 2014	3.068	Feb 2015	0.208	Dec 2015	-		0.208	-	4.763	-
DCGS	WR	NSWC-CRANE : Crane, IA	0.000	-		0.432	Jan 2015	0.207	Jan 2016	-		0.207	-	0.639	-
DCGS	WR	MCOTEA : Washington, DC	0.000	0.299	Oct 2013	-		-		-		-	-	0.299	-
Subtotal			4.340	1.089		3.500		0.623		-		0.623	-	9.552	-
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DCGS	C/FFP	MITRE : Stafford, Va	0.798	0.276	Apr 2014	0.300	Jan 2015	-		-		-	-	1.374	-
Subtotal			0.798	0.276		0.300		-		-		-	-	1.374	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			57.183	5.207		11.606		1.105		-		1.105	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Navy

Date: February 2015

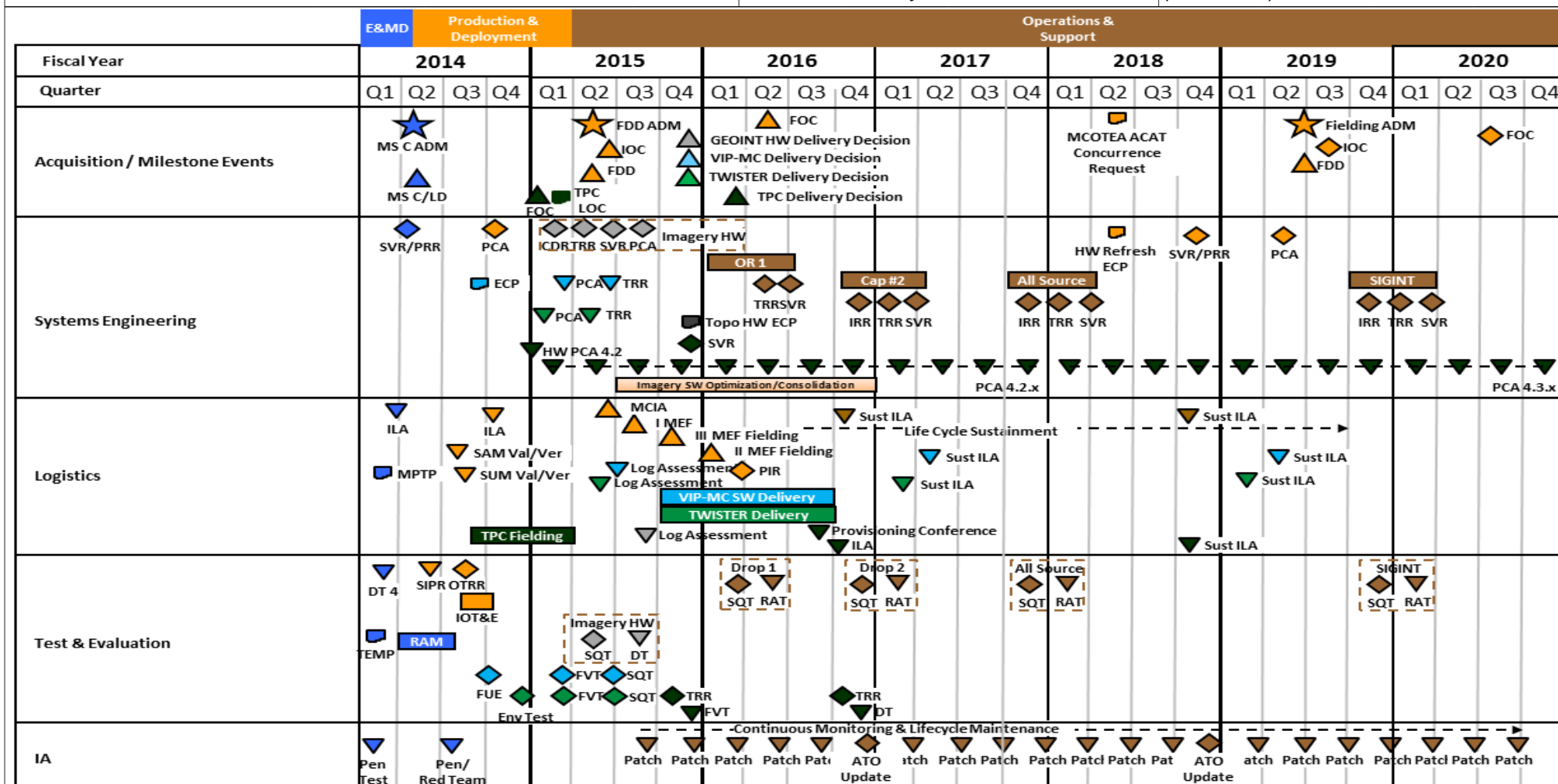
Appropriation/Budget Activity

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)

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy			Date: February 2015
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305208M / (U) <i>Distributed Common Ground/Surface Systems</i>	Project (Number/Name) 2268 / <i>Distributed Common Ground System (DCGS-MC)</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 2268</i>				
DCGS-MC GEOINT, Milestone C for Enterprise DIB Services (EDS)	2	2014	2	2014
DCGS-MC GEOINT Initial Operational Test and Evaluation for EDS	3	2014	3	2014
DCGS-MC GEOINT Fielding Decision for EDS	2	2015	2	2015
DCG-MC GEOINT Initial Operational Capability for EDS	2	2015	2	2015
DCGS-MC GEOINT Full Operational Capability for EDS	2	2016	2	2016
Fielding DCGS-MC Imagery Workstations	4	2015	4	2015
Fielding VIP-MC	4	2015	4	2015