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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2021 Navy **Date:** February 2020

<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy I BA 7: Operational Systems Development</i>					<b>R-1 Program Element (Number/Name)</b> PE 0305208M I (U) <i>Distributed Common Ground/Surface Systems</i>							
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	85.714	7.610	22.042	21.500	-	21.500	23.162	20.719	21.221	21.795	Continuing	Continuing
2268: <i>Distributed Common Ground System (DCGS-MC)</i>	85.714	7.610	22.042	21.500	-	21.500	23.162	20.719	21.221	21.795	Continuing	Continuing

**Note**

Beginning in FY20, Intelligence Analysis System (IAS) and Technical Control Analysis Center (TCAC) resources have been realigned from PE 0206625M project 2272, Intel Command and Control (C2) Sys to PE 0305208M project 2268, Distributed Common Ground/Surface Systems. Transition into the DCGS portfolio is necessary to concentrate investments in an integrated architecture thereby improving DCGS Enterprise alignment and more effectively leveraging the rapid integration of new technology.

**A. Mission Description and Budget Item Justification**

This is a Military Intelligence program element.

Distributed Common Ground/Surface System Marine Corps (DCGS-MC) is integral to delivering decision advantage at the speed of operational relevance. In order to concentrate investments in an integrated architecture to improve enterprise alignment while delivering substantially better collective intelligence outcomes for the warfighter, our All-Source and SIGINT programs have been consolidated under the DCGS-MC portfolio.

DCGS-MC provides core intelligence processing, analysis, production, and dissemination tools within garrison and deployed Marine Corps organizations. DCGS-MC complies 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). Capabilities are provided via COTS servers, workstations, laptops, peripherals, and commercial and government software. Modernization and technology insertion efforts are focused on advanced capabilities such as cloud services and Artificial Intelligence/Machine learning (AI/ML) to support operations in the information environment. Current programmatic efforts support a service-oriented architecture and migration to common hardware and software to take advantage of common computer administration functions, common training, and common cybersecurity procedures.

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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
Previous President's Budget	7.610	22.042	17.019	-	17.019
Current President's Budget	7.610	22.042	21.500	-	21.500
Total Adjustments	0.000	0.000	4.481	-	4.481
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	4.132	-	4.132
• Rate/Misc Adjustments	0.000	0.000	0.349	-	0.349

**Change Summary Explanation**

The FY 2021 funding request was reduced by \$1.368 million to account for the availability of prior year execution balances.

The decrease of \$0.542 million between FY 2020 and FY 2021 is attributed to reduction in T&E efforts associated with Intel Cloud services migration.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Navy										<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 1319 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0305208M / (U) <i>Distributed Common Ground/Surface Systems</i>					<b>Project (Number/Name)</b> 2268 / <i>Distributed Common Ground System (DCGS-MC)</i>		
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
2268: <i>Distributed Common Ground System (DCGS-MC)</i>	85.714	7.610	22.042	21.500	-	21.500	23.162	20.719	21.221	21.795	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**Note**

The FY21 funding request was reduced by \$1.368M to account for availability of prior year execution balances.

**A. Mission Description and Budget Item Justification**

This is a Military Intelligence Program (MIP) program element.

Distributed Common Ground/Surface System Marine Corps (DCGS-MC) is integral to delivering decision advantage at the speed of operational relevance outlined in the 2018 National Defense Strategy. DCGS-MC provides an analysis and production capability within garrison and deployed Marine Corps organizations. DCGS-MC complies 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 DCGS-MC portfolio currently consists of enterprise services and functional analytic and production tools that provide analysts with the ability to process, disseminate, exploit, analyze, and produce intelligence for discovery via the DCGS Integration Backbone (DIB). The functional capabilities are grouped by DCGS-MC GEOINT, DCGS-MC All Source, and DCGS-MC SIGINT. Future capabilities will be delivered via clearly defined Capability Drops determined by an integrated assessment of user needs, technology readiness, risk mitigation, and affordability.

DCGS-MC Geospatial Intelligence (DCGS-MC GEOINT)

DCGS-MC GEOINT provides geo-referenced data and products that establish the GEOINT foundation for battlespace visualization and a common frame of reference to support the commander's decision making process. It enables the ability to rapidly respond to, or predict, threats around the world by providing near real time geospatially referenced data and products that serve as the Authoritative Data Source for the full spectrum of Marine Air-Ground Task Force (MAGTF), joint, and multinational partner's operations. DCGS-MC GEOINT enables mission accomplishment across the range of military operations and with all mission partners. The DCGS-MC GEOINT provides the tasking, collection, processing, exploitation, analysis, production, storage, and dissemination of imagery and geospatial information to describe, assess, produce, and visually depict physical features and geographically referenced activities on the Earth. DCGS-MC GEOINT will incorporate those capabilities formally provided by the Tactical Exploitation Group, Topographic Production Capability, Virtual Imagery Processing - Marine Corps, and Target Materials Production legacy systems.

DCGS-MC All Source

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DCGS-MC All Source incorporates those capabilities formally provided by the Intelligence Analysis System (IAS) project. This acquisition program is the Marine Corps' primary intelligence analytical toolset at all levels of the Marine Air-Ground Task Force (MAGTF). DCGS-MC All Source enables global collaboration with Marine and joint analytical systems. It provides Marines the capability to conduct all-source fusion, analysis, and production of intelligence by automating multiple intelligence functions and processes. This includes the display of current enemy situation, collection requirements, asset management, message parsing, and database updates. DCGS-MC All Source automatically logs intelligence activities into a journal and provides access to intelligence produced by tactical, theater, and national systems and agencies. It facilitates the dissemination and exchange of intelligence and information with other echelons through tactical local area networks and wide area networks from the Marine Expeditionary Force (MEF) garrison facility down to the infantry company level. DCGS-MC All Source consists of intelligence servers and workstations with their associated peripherals and software.

DCGS-MC Signals Intelligence (DCGS-MC SIGINT)

The Technical Control Analysis Center (TCAC) FoS is the DCGS-MC SIGINT capability and consists of the TCAC Remote Analysis Workstation (RAWS), the Transportable Workstation (TWS) and the Cross Domain Solution (CDS), and is the focal point of Radio Battalions (RADBN), Marine Corps Forces Special Operations Command (MARFORSOC), and Joint Strike Fighter (JSF) Signal Intelligence (SIGINT) operations. TCAC automatically collects, stores, retrieves and plays back digital audio signals. It fuses and analyzes SIGINT data from tactical, theater, and national collectors and databases for dissemination to tactical commanders. TCAC provides SIGINT analysis applications to deployable MAGTF units capable of directing and managing the technical and operational functions of other RADBN SIGINT/EW assets. Additionally, TCAC provides a focal point for national, theater, and tactical data networks for data exchange with tactical SIGINT/EW assets, the IAS and national databases. TCAC will enable the transfer of USMC tactical SIGINT collection and analytical data into the Real-Time Regional Gateway (RT-RG) and by producing DIB enabled products that will be discoverable by any DCGS enabled Marine. The system provides ground processing of Electronic Warfare (EW) information including EW Support and Electronic Attack (EA) data collected by the RADBN and JSF aircraft. The Cross Domain Solution also enables the TCAC to transfer approved and sanitized file types from Top Secret/Sensitive Compartmented Information (TS/SCI) networks (e.g. JWICS/NSAnet) to Marine Corps Enterprise Network-SIPR (MCEN-S) networks for delivery to Tactical Commanders.

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

	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
<b>Title:</b> DCGS-MC GEOINT: Product Development	2.221	5.237	5.386	0.000	5.386
<b>Articles:</b>	-	-	-	-	-
<b>FY 2020 Plans:</b>					
- Initiate support for Project Maven/Artificial Intelligence (AI) integration into Common GEOINT Baseline.					
- Continue support for JWICS and NIPR domain integration efforts for Common GEOINT Baseline.					
- Continue support for program Engineering Change Proposals (ECPs) as necessary.					
- Continue support for DCGS-MC GEOINT software enhancements as identified through configuration control board and engineering review boards in response to OPFOR requirements.					

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>					
<ul style="list-style-type: none"> <li>- Continue support for research and development activities to integrate garrison Enterprise Hub (EHUB) into DCGS-MC.</li> <li>- Continue support for research and development activities to consolidate software and hardware for common GEOINT servers and workstations.</li> </ul> <p><b>FY 2021 Base Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue support for Project Maven/Artificial Intelligence (AI) integration into Common GEOINT Baseline.</li> <li>- Continue support for JWICS and NIPR domain integration efforts for Common GEOINT Baseline.</li> <li>- Continue support for program ECPs as necessary.</li> <li>- Continue support for DCGS-MC GEOINT software enhancements as identified through configuration control board and engineering review boards in response to OPFOR requirements.</li> <li>- Continue support for research and development activities to integrate garrison EHUB into DCGS-MC.</li> <li>- Continue support for research and development activities to consolidate software and hardware for common GEOINT servers and workstations.</li> <li>- Initiate Intel Cloud services migration; to include workflow automation, leveraging Artificial Intelligence/Machine Learning (AI/ML) data analysis capabilities and technology advancements.</li> <li>- Initiate development of Common Data Link (CDL) Antenna Refresh.</li> </ul> <p><b>FY 2021 OCO Plans:</b> N/A</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Increase of \$0.149 million from FY 2020 to FY 2021 supports the development of Intel Cloud services migration and Common Data Link Antenna Refresh.</p>					
<b>Title:</b> DCGS-MC GEOINT: Support					
<b>Articles:</b>					
	0.875	0.900	0.925	0.000	0.925
	-	-	-	-	-
<b>FY 2020 Plans:</b>					
<ul style="list-style-type: none"> <li>- Continue support for Project Maven integration planning, data analytics and cloud services capabilities.</li> <li>- Continue support for systems engineering, interoperability analysis, acquisition planning, and systems integration</li> </ul>					
<b>FY 2021 Base Plans:</b>					
<ul style="list-style-type: none"> <li>- Continue support for Project Maven integration planning, data analytics and cloud services capabilities.</li> </ul>					

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
- Continue support for systems engineering, interoperability analysis, acquisition planning, and systems integration <b>FY 2021 OCO Plans:</b> N/A <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> No significant changes from FY 2020 to FY 2021.					
<b>Title:</b> DCGS-MC GEOINT: Management Services  <b>Articles:</b>	0.300 -	0.309 -	0.325 -	0.000 -	0.325 -
<b>FY 2020 Plans:</b> - Continue support for research and development activities that impact the acquisition of military intelligence, surveillance, and reconnaissance systems. <b>FY 2021 Base Plans:</b> - Continue support for research and development activities that impact the acquisition of military intelligence, surveillance, and reconnaissance systems. <b>FY 2021 OCO Plans:</b> N/A <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> No significant changes from FY 2020 to FY 2021.					
<b>Title:</b> DCGS-MC GEOINT: Test and Evaluation  <b>Articles:</b>	4.214 -	3.692 -	2.679 -	0.000 -	2.679 -
<b>FY 2020 Plans:</b> - Continue Post Milestone C System Engineering Test Review (SETR) activities associated with DCGS-MC Capability Drops, software integration and associated test events. - Continue support for systems engineering, interoperability analysis, acquisition planning, and systems integration - Continue support for research and development activities that impact the acquisition of military intelligence, surveillance, and reconnaissance systems. - Continue requirements traceability efforts for all DCGS-MC programs, including Key Performance Parameters and Key System Attributes to ensure fielded systems or systems under development meet/continue to meet					

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

	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
<p>systems and sub-systems specifications and requirements, providing materiel solutions which meet operational requirements, verified through appropriate developmental and operational test events.</p> <ul style="list-style-type: none"> <li>- Continue GEOINT systems requirements review and support for GEOINT software enhancements, leveraging the DCGS Mission Execution Team Office and DCGS-MC Configuration Control Board to refine and integrate system requirements through the RDP in order to deliver GEOINT capabilities that keep pace with technology and meet OPFOR requirements</li> <li>- Continue support for research and development activities to integrate SIGINT capability into DCGS-MC.</li> <li>- Continue support for research and development activities to integrate Enterprise Services into DCGS-MC (EHub).</li> <li>- Continue support for software and hardware consolidation development and integration activities associated with DCGS-MC GEOINT efforts which will reduce the overall GEOINT hardware footprint, while combining legacy capabilities into a single baseline, providing a more flexible Geospatial, Full Motion Video, Imagery and Target Material Production workstation/suite of equipment.</li> <li>- Continue support for integration and testing of advanced analytics tools and AI/ML into the software baseline.</li> <li>- Initiate support for JWICS and NIPR domain integration efforts for Common GEOINT Baseline to allow for increase data discovery and dissemination of Marine Corps intelligence</li> <li>- Initiate support for expanded Processing, Exploitation, and Dissemination (PED) reach-back capability to accommodate FMV/GEOINT exploitation in support of tactical intelligence analysts operating in a Disconnected, Intermittent, Limited bandwidth (D-DIL) environment.</li> </ul> <p><b>FY 2021 Base Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue Post Milestone C SETR activities associated with DCGS-MC Capability Drops, software integration and associated test events.</li> <li>- Continue support for systems engineering, interoperability analysis, acquisition planning, and systems integration</li> <li>- Continue support for research and development activities that impact the acquisition of military intelligence, surveillance, and reconnaissance systems.</li> <li>- Continue requirements traceability efforts for all DCGS-MC programs, including Key Performance Parameters and Key System Attributes to ensure fielded systems or systems under development meet/continue to meet systems and sub-systems specifications and requirements, providing materiel solutions which meet operational requirements, verified through appropriate developmental and operational test events.</li> <li>- Continue GEOINT systems requirements review and support for GEOINT software enhancements, leveraging the DCGS Mission Execution Team Office and DCGS-MC Configuration Control Board to refine and integrate</li> </ul>					

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<p>system requirements through the RDP in order to deliver GEOINT capabilities that keep pace with technology and meet OPFOR requirements</p> <ul style="list-style-type: none"> <li>- Continue support for research and development activities to integrate SIGINT capability into DCGS-MC.</li> <li>- Continue support for research and development activities to integrate Enterprise Services into DCGS-MC (EHub).</li> <li>- Continue support for integration and testing of advanced analytics tools and AI/ML into the software baseline.</li> <li>- Continue support for JWICS and NIPR domain integration efforts for Common GEOINT Baseline to allow for increase data discovery and dissemination of Marine Corps intelligence</li> <li>- Continue support for expanded Processing, Exploitation, and Dissemination (PED) reach-back capability to accommodate FMV/GEOINT exploitation in support of tactical intelligence analysts operating in a Disconnected, Intermittent, Limited bandwidth (D-DIL) environment.</li> <li>- Continue support for software and hardware consolidation development and integration activities associated with DCGS-MC GEOINT efforts which will reduce the overall GEOINT hardware footprint, while combining legacy capabilities into a single baseline, providing a more flexible Geospatial, Full Motion Video, Imagery and Target Material Production workstation/suite of equipment.</li> <li>- Initiate Intel Cloud services migration; to include workflow automation, leveraging AI/ML data analysis capabilities and technology advancements.</li> <li>- Initiate test and evaluation of Common Data Link (CDL) Antenna Refresh.</li> </ul> <p><b>FY 2021 OCO Plans:</b> N/A</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Decrease of \$1.013 million from FY 2020 to FY 2021 supports reduction in T&amp;E for Intel Cloud services migration.</p>					
<p><b>Title:</b> DCGS-MC All Source: Test and Evaluation</p> <p align="right"><b>Articles:</b></p>	0.000	1.936	2.111	0.000	2.111
<p><b>FY 2020 Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue support for integration of advanced analytics tools into the IAS FoS software baseline.</li> <li>- Continue support for integration and testing of Intelligence Servers into the DCGS-MC FoS.</li> <li>- Continue testing and evaluation for the Cross Domain Solution.</li> </ul> <p><b>FY 2021 Base Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue support for integration of advanced analytics tools into the IAS FoS software baseline.</li> </ul>	-	-	-	-	-

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
<ul style="list-style-type: none"> <li>- Continue support for integration and testing of Intelligence Servers into the DCGS-MC FoS.</li> <li>- Continue testing and evaluation for the Cross Domain Solution.</li> <li>- Initiate Intel Cloud services migration; to include workflow automation, leveraging AI/ML data analysis capabilities and technology advancements.</li> </ul> <p><b>FY 2021 OCO Plans:</b> N/A</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Increase of \$0.175 million from FY 2020 to FY 2021 supports Intel Cloud services migration.</p>					
<p><b>Title:</b> DCGS-MC All Source: Product Development</p> <p align="right"><b>Articles:</b></p>	0.000	3.480	4.352	0.000	4.352
<p><b>FY 2020 Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue integration, system testing, and evaluation of Intelligence Servers into the DCGS-MC FoS.</li> <li>- Continue integration, system testing, and evaluation of advanced analytic technologies into the Intelligence Analysis System (IAS) Family of Systems (FoS).</li> </ul> <p><b>FY 2021 Base Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue integration, system testing, and evaluation of Intelligence Servers into the DCGS-MC FoS.</li> <li>- Continue integration, system testing, and evaluation of advanced analytic technologies into the Intelligence Analysis System (IAS) Family of Systems (FoS).</li> <li>- Initiate Intel Cloud services migration; to include workflow automation, leveraging AI/ML data analysis capabilities and technology advancements.</li> </ul> <p><b>FY 2021 OCO Plans:</b> N/A</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Increase of \$0.872 million from FY 2020 to FY 2021 supports Intel Cloud services migration.</p>	-	-	-	-	-
<p><b>Title:</b> DCGS-MC All Source: Management Services</p> <p align="right"><b>Articles:</b></p>	0.000	0.300	0.330	0.000	0.330
<p><b>FY 2020 Plans:</b></p>	-	-	-	-	-

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>					
<ul style="list-style-type: none"> <li>- Continue program management support for integration of advanced analytics tools into the IAS FoS software baseline.</li> <li>- Continue program management support for integration and testing of Intelligence Servers into the IAS FoS.</li> </ul> <p><b>FY 2021 Base Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue program management support for integration of advanced analytics tools into the IAS FoS software baseline.</li> <li>- Continue program management support for integration and testing of Intelligence Servers into the IAS FoS.</li> </ul> <p><b>FY 2021 OCO Plans:</b> N/A</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> No significant changes from FY 2020 to FY 2021.</p>					
<b>Title:</b> DCGS-MC SIGINT: Test and Evaluation					
<b>Articles:</b>					
	0.000	2.216	2.214	0.000	2.214
	-	-	-	-	-
<b>FY 2020 Plans:</b>					
<ul style="list-style-type: none"> <li>- Complete final developmental testing events before fielding decision for the RAWs</li> <li>- Complete research and testing for the TWS technical research to finalize decision for product procurement.</li> <li>- Continue test design in support of the next hardware refresh for RAWs and CDS.</li> </ul> <p><b>FY 2021 Base Plans:</b></p> <ul style="list-style-type: none"> <li>- Complete test design in support of the next hardware refresh for CDS.</li> <li>- Continue test design in support of the next hardware refresh for RAWs.</li> </ul> <p><b>FY 2021 OCO Plans:</b> N/A</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> No significant changes from FY 2020 to FY 2021.</p>					
<b>Title:</b> DCGS-MC SIGINT: Product Development					
<b>Articles:</b>					
	0.000	2.928	2.543	0.000	2.543
	-	-	-	-	-
<b>FY 2020 Plans:</b>					
<ul style="list-style-type: none"> <li>- Complete product development for the TWS hardware refresh in order to conduct testing and evaluation events.</li> </ul>					

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
<ul style="list-style-type: none"> <li>- Continue research in support of next CDS hardware refresh.</li> <li>- Complete research and development for RAWS.</li> <li>- Initiate integration of AI/ML components for FoS.</li> </ul> <p><b>FY 2021 Base Plans:</b></p> <ul style="list-style-type: none"> <li>- Complete research in support of next CDS hardware refresh</li> <li>- Continue integration of AI/ML technologies into the FoS.</li> </ul> <p><b>FY 2021 OCO Plans:</b> N/A</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Decrease of \$0.385 million from FY 2020 to FY 2021 reflects completion of TWS and RAWS development.</p> <p><b>Title:</b> DCGS-MC SIGINT: Support</p>					
<b>Articles:</b>	0.000	1.044	0.635	0.000	0.635
	-	-	-	-	-
<p><b>FY 2020 Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue technical support of improvement to TCAC software baseline based on the Secure the Enterprise/ Secure the Network initiatives required by NSA for network connectivity.</li> <li>- Complete technical support for the next hardware refresh for each component of the FoS.</li> </ul> <p><b>FY 2021 Base Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue technical support of improvement to TCAC software baseline based on the Secure the Enterprise/ Secure the Network initiatives required by NSA for network connectivity.</li> </ul> <p><b>FY 2021 OCO Plans:</b> N/A</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Decrease of \$0.409 million from FY 2020 to FY 2021 is due to the completion of technical support for the FoS hardware refresh.</p>					
<b>Accomplishments/Planned Programs Subtotals</b>	7.610	22.042	21.500	0.000	21.500

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Navy		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305208M / (U)Distributed Common Ground/Surface Systems	<b>Project (Number/Name)</b> 2268 / Distributed Common Ground System (DCGS-MC)

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

Line Item	FY 2019	FY 2020	FY 2021	FY 2021	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Cost To	
			Base	OCO	Total					Complete	Total Cost
• PMC/47671: DCGS-MC GEOINT	19.206	20.516	23.571	-	23.571	16.206	19.685	23.203	23.673	Continuing	Continuing
• PMC/47672: DCGS-MC All Source	0.000	7.770	8.228	-	8.228	4.871	5.981	9.972	10.147	Continuing	Continuing
• PMC/47673: DCGS-MC SIGINT	0.000	4.276	6.461	-	6.461	1.853	2.938	2.997	3.057	Continuing	Continuing
• PMC/70001: DCGS-MC All Source Spares	0.160	0.166	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

**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.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Navy** **Date:** February 2020

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305208M / (U)Distributed Common Ground/Surface Systems	<b>Project (Number/Name)</b> 2268 / Distributed Common Ground System (DCGS-MC)
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<b>Product Development (\$ in Millions)</b>				<b>FY 2019</b>		<b>FY 2020</b>		<b>FY 2021 Base</b>		<b>FY 2021 OCO</b>		<b>FY 2021 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
DCGS-MC GEOINT	C/CPFF	NIWC-LANT : Charleston, SC	1.785	1.068	Dec 2018	2.422	Feb 2020	2.592	Dec 2020	-		2.592	Continuing	Continuing	Continuing
DCGS-MC GEOINT - Classified Services	Various	N/A : N/A	2.250	1.153	Mar 2019	2.815	Mar 2020	2.794	Mar 2021	-		2.794	Continuing	Continuing	Continuing
DCGS-MC All Source - GOVT	WR	NIWC-LANT : Charleston, SC	0.000	0.000		1.800	Jan 2020	2.305	Dec 2020	-		2.305	Continuing	Continuing	Continuing
DCGS-MC All Source	C/CPFF	NIWC-LANT : Charleston, SC	0.000	0.000		1.680	Feb 2020	2.047	Feb 2021	-		2.047	Continuing	Continuing	Continuing
DCGS-MC SIGINT	C/CPFF	NIWC-LANT : Charleston, SC	0.000	0.000		1.728	Dec 2019	1.543	Dec 2020	-		1.543	Continuing	Continuing	Continuing
DCGS-MC SIGINT	MIPR	NIWC-LANT : Ft. Belvoir, VA	0.000	0.000		1.200	Dec 2019	1.000	Apr 2021	-		1.000	Continuing	Continuing	Continuing
DCGS PRIOR YEAR CUMULATIVE FUNDING	Various	N/A : N/A	55.765	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
<b>Subtotal</b>			59.800	2.221		11.645		12.281		-		12.281	Continuing	Continuing	N/A

**Remarks**  
Increase of \$0.636M from FY 2020 to FY 2021 supports the development of Intel Cloud services migration and Common Data Link Antenna Refresh.

<b>Support (\$ in Millions)</b>				<b>FY 2019</b>		<b>FY 2020</b>		<b>FY 2021 Base</b>		<b>FY 2021 OCO</b>		<b>FY 2021 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
DCGS-MC GEOINT	C/CPFF	NIWC-LANT : Charleston, SC	0.750	0.875	Mar 2019	0.900	Mar 2020	0.925	Mar 2021	-		0.925	Continuing	Continuing	Continuing
DCGS-MC SIGINT	C/CPFF	DTIC : Ft. Belvoir, VA	0.000	0.000		1.044	Jun 2020	0.000		-		0.000	Continuing	Continuing	Continuing
DCGS-MC SIGINT	C/CPFF	NIWC-LANT : Charleston, SC	0.000	0.000		0.000		0.635	Dec 2020	-		0.635	Continuing	Continuing	Continuing
DCGS PRIOR YEAR CUMULATIVE FUNDING	Various	N/A : N/A	7.341	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
<b>Subtotal</b>			8.091	0.875		1.944		1.560		-		1.560	Continuing	Continuing	N/A

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Navy** **Date:** February 2020

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305208M / (U)Distributed Common Ground/Surface Systems	<b>Project (Number/Name)</b> 2268 / Distributed Common Ground System (DCGS-MC)
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<b>Support (\$ in Millions)</b>				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			

**Remarks**  
Decrease of \$0.384M from FY 2020 to FY 2021 is due to the completion of technical support for the FoS hardware refresh.

<b>Test and Evaluation (\$ in Millions)</b>				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
DCGS- MC GEOINT	Various	NIWC-LANT : Charleston, SC	3.983	1.945	Dec 2018	1.500	Jun 2020	1.245	Mar 2021	-		1.245	Continuing	Continuing	Continuing
DCGS-MC GEOINT	WR	NSMA : Washington DC	0.654	0.300	Aug 2019	0.375	Dec 2019	0.450	Dec 2020	-		0.450	Continuing	Continuing	Continuing
DCGS-MC GEOINT	C/CPFF	NIWC-LANT : Charleston, SC	4.290	1.969	Dec 2018	0.612	Jan 2020	0.984	Mar 2021	-		0.984	Continuing	Continuing	Continuing
DCGS-MC GEOINT	C/CPFF	NRL : Washington, DC	3.908	0.000		1.205	May 2020	0.000		-		0.000	Continuing	Continuing	Continuing
DCGS-MC All Source	C/CPFF	NIWC-LANT : Not Specified	0.000	0.000		1.936	Jun 2020	2.111	Mar 2021	-		2.111	Continuing	Continuing	Continuing
DCGS-MC SIGINT	WR	NIWC-LANT : Charleston, SC	0.000	0.000		0.841	Feb 2020	0.000		-		0.000	Continuing	Continuing	Continuing
DCGS-MC SIGINT	MIPR	DTIC : Ft. Belvoir, VA	0.000	0.000		1.375	Jun 2020	0.000		-		0.000	Continuing	Continuing	Continuing
DCGS-MC SIGINT	C/CPFF	NSMA : Charleson, VA	0.000	0.000		0.000		2.214	Jan 2021	-		2.214	Continuing	Continuing	Continuing
DCGS PRIOR YEAR CUMULATIVE FUNDING	Various	N/A : N/A	4.586	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
<b>Subtotal</b>			17.421	4.214		7.844		7.004		-		7.004	Continuing	Continuing	N/A

**Remarks**  
Decrease of \$0.840M from FY 2020 to FY 2021 supports reduction in T&E for Intel Cloud services migration.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Navy** **Date:** February 2020

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305208M / (U)Distributed Common Ground/Surface Systems	<b>Project (Number/Name)</b> 2268 / Distributed Common Ground System (DCGS-MC)
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<b>Management Services (\$ in Millions)</b>				<b>FY 2019</b>		<b>FY 2020</b>		<b>FY 2021 Base</b>		<b>FY 2021 OCO</b>		<b>FY 2021 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
DCGS-MC GEOINT: MITRE	C/CPFF	CECOM : APG, MD	0.402	0.300	Nov 2018	0.309	Nov 2019	0.325	Nov 2020	-		0.325	Continuing	Continuing	Continuing
DCGS-MC All Source	C/FFP	DTIC : Ft. Belvoir, VA	0.000	0.000		0.300	Apr 2020	0.330	Apr 2021	-		0.330	Continuing	Continuing	Continuing
<b>Subtotal</b>			0.402	0.300		0.609		0.655		-		0.655	Continuing	Continuing	N/A

**Remarks**  
No significant change from FY 2020 to FY 2021.

	<b>Prior Years</b>	<b>FY 2019</b>		<b>FY 2020</b>		<b>FY 2021 Base</b>		<b>FY 2021 OCO</b>		<b>FY 2021 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	85.714	7.610		22.042		21.500		-		21.500	Continuing	Continuing	N/A

**Remarks**

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Navy

Date: February 2020

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)



## DCGS-MC PROGRAM SCHEDULE (GEOINT / ALL SOURCE / SIGINT)



Fiscal Year	FY19				FY20				FY21				FY22				FY23				FY24				FY25			
Quarter	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>Acquisition / Milestone Events</b>				GEOINT MS C FRP			SIGINT TWS PD	GEOINT FD				ALL SOURCE CIS FD			ANTENNA PD					Peripherals /PD				GEOINT REFRESH PD				GEOINT MS C FRP
			SIGINT RAWS HW REFRESH PD				ALL SOURCE AATS FD	GEOINT IOC				SIGINT CDS PD			GEOINT FOC									SIGINT RAWS HW REFRESH PD				SIGINT RAWS MS C / FRP
<b>Test &amp; Evaluation</b>								GEOINT JWICS/CDS INTEROPERABILITY TESTING							ANTENNA TESTING					PERIPHERALS TESTING								
			GEOINT WS TESTING				CIS TESTING	MAVEN TESTING GEOINT / SIGINT																				
<b>Logistics</b>												GEOINT FIELDING			ANTENNA FIELDING					PERIPHERALS FIELDING								
			TEG WS DELIVERY									ALL SOURCE CIS FIELDING																
												ALL SOURCE AATS FIELDING																
<b>Major Contract Events</b>												ANTENNA MARKET RESEARCH			PERIPHERALS MARKET RESEARCH									RFI				GEOINT HW RFP
			ALL SOURCE AATS AWARD	GEOINT CONTRACT AWARD																								
			GEOINT HW RFP				ALL SOURCE CIS AWARD																					
<b>Systems Engineering</b>												GEOINT FOS CONSOLIDATION																
												MAVEN INTEGRATION (GEOINT / SIGINT)																
															ANTENNA REFRESH					PERIPHERALS REFRESH								

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<b>Exhibit R-4A, RDT&amp;E Schedule Details: PB 2021 Navy</b>		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305208M / (U)Distributed Common Ground/Surface Systems	<b>Project (Number/Name)</b> 2268 / Distributed Common Ground System (DCGS-MC)

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 2268</b>				
DCGS-MC GEOINT: GEOINT MS C FRP	4	2019	4	2019
DCGS-MC GEOINT: Maven Integration	3	2020	3	2021
DCGS-MC GEOINT: JWICS/CDS Interoperability Testing	3	2020	3	2020
DCGS-MC GEOINT: GEOINT Fielding Decision	4	2020	4	2020
DCGS-MC GEOINT: GEOINT IOC	4	2020	4	2020
DCGS-MC All Source: AATS Fielding Decision	2	2020	2	2020
DCGS-MC All Source: GEOINT Common Intel Server Testing	3	2020	3	2020
DCGS-MC All Source: Common Intel Server Fielding Decision	4	2020	4	2020
DCGS-MC All Source: Common Intel Server Fielding	1	2021	4	2021
DCGS-MC SIGINT: RAWs Procurement Decision	4	2019	4	2019
DCGS-MC SIGINT: TWS Procurement Decision	3	2020	3	2020
DCGS-MC SIGINT: CDS Procurement Decision	1	2021	1	2021
DCGS-MC SIGINT: TWS/RAWs Fielding Decision	1	2021	1	2021