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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Defense Information Systems Agency	Date: May 2017
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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>					R-1 Program Element (Number/Name) PE 0302016K / <i>National Military Command System-Wide Support</i>							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	6.315	0.938	0.575	1.863	-	1.863	1.849	1.823	1.855	1.866	Continuing	Continuing
S32: <i>NMCS Command Center Engineering</i>	6.315	0.938	0.575	1.863	-	1.863	1.849	1.823	1.855	1.866	Continuing	Continuing

A. Mission Description and Budget Item Justification

The National Military Command System (NMCS), operated by the Chairman of the Joint Chiefs of Staff, provides the President, Secretary of Defense, and other national senior leaders the ability to maintain situational and operational awareness and command and control of military forces in all crisis and/or national emergency contingencies. DISA's NMCS engineering program meets the NMCS systems engineer responsibilities, per Department of Defense Directive (DoDD) S-5100.44 and Chairman of the Joint Chiefs of Staff Instruction (CJCSI) 3280.01B, to provide the Joint Staff with operationally efficient and cost-effective engineering solutions to ensure that components and facilities satisfy operational requirements including emergency messaging, situational awareness, crisis action, and information management.

The NMCS engineering program is vital in supporting the government's ability to safeguard national security and respond to contingencies globally and/or nuclear war. NMCS engineering focuses on implementing collaborative tools into current and crisis operations areas, integrating adequate back-up storage and recovery of voice, video and data across the continental United States to support key leaders, transitioning nuclear command and control to Internet Protocol based networks, migrating data and voice network to next generation satellites, implementing modern cryptological devices, and utilizing wireless networking to support warning systems and situational awareness. In addition, NMCS engineering continues to maintain the NMCS Reference Guide required by DoDD S-5100.44 and to develop engineering and test plans for the installation of hardware and software systems utilized within the NMCS.

B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	0.963	0.575	1.155	-	1.155
Current President's Budget	0.938	0.575	1.863	-	1.863
Total Adjustments	-0.025	0.000	0.708	-	0.708
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.025	-			
• SBIR/STTR Transfer	-	-			
• Other adjustments	-	-	0.708	-	0.708

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Change Summary Explanation The increase of +\$0.708 in FY 2018 is due to application of the National Leadership Command Capability (NLCC) Configuration Management process to applicable NMCS systems; engineering support for Northstar and SATSTAR services transition to new NLCC transport infrastructure; and implementation/ engineering of expanded conferencing capabilities in support of all NMCS sites. This increase is partially offset by a decrease of -\$0.079 attributed to the Service Requirements Review Board (SSRB) contract reduction.		

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Defense Information Systems Agency										Date: May 2017		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 0302016K / National Military Command System-Wide Support				Project (Number/Name) S32 / NMCS Command Center Engineering			
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
S32: NMCS Command Center Engineering	6.315	0.938	0.575	1.863	-	1.863	1.849	1.823	1.855	1.866	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The National Military Command System (NMCS), operated by the Chairman of the Joint Chiefs of Staff, provides the President, Secretary of Defense, and other national senior leaders the ability to maintain situational and operational awareness and command and control of military forces in all crisis and/or national emergency contingencies. DISA's NMCS engineering program meets the NMCS systems engineer responsibilities, per Department of Defense Directive (DoDD) S-3710.01 and Chairman of the Joint Chiefs of Staff Instruction (CJCSI) 3280.01C, to provide the Joint Staff with operationally efficient and cost-effective engineering solutions to ensure that components and facilities satisfy operational requirements including emergency messaging, situational awareness, crisis action, and information management.

The NMCS engineering program is vital in supporting the government's ability to safeguard national security and respond to contingencies globally and/or nuclear war. NMCS engineering focuses on implementation of collaborative tools into current and crisis operations areas, the integration of adequate back-up storage and recovery of voice, video and data across the continental United States to support key leaders, transition of nuclear command and control to Internet Protocol (IP)-based networks, migration of data and voice network to next generation satellites, implementation of modern crypto-logical devices, and the utilization of wireless networking to support warning systems and situational awareness. In addition, NMCS engineering continues to maintain the NMCS Reference Guide (NRG) required by DoDD S-3710.01 and to develop engineering and test plans for the installation of hardware and software systems utilized within the NMCS.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2016	FY 2017	FY 2018
Title: NMCS Systems Engineering	0.938	0.575	1.863
FY 2016 Accomplishments: Maintained the NMCS Reference Guide (NRG) and the PCC Toolkit to ensure expanded collaboration and information sharing. Updated, automated and maintained the Online Companion Reference for the CJCSI 3280.01M which is critical to ongoing operations. Provided technical evaluations and strategies for implementing Nuclear Command and Control over IP into other National Leadership Command Capability (NLCC) enabling programs. Supported engineering requirements and continued in identifying technical solutions to integrate NMCS with other senior leadership and continuity command, control and communication (C3) systems that constitute the NLCC. Focused on implementing collaborative tools into current and crisis operations areas, integrating adequate back-up storage and recovery of voice, video and data to support key leaders, and migrating data and voice networks to next generation satellites.			

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B. Accomplishments/Planned Programs (\$ in Millions)								FY 2016	FY 2017	FY 2018	
The increase of +\$0.039 from FY 2015 to FY 2016 addressed data integration and engineering activities required to deliver enterprise level solutions to meet NMCS priorities. FY 2017 Plans: Will modernize and integrate NMCS capabilities (e.g. transition platforms, data interfaces, security and graphical user interfaces) as the NMCS systems engineer IAW the CJCSI 3280 and CJCSI 5119. Will focus on the improvement of collaborative services, and the integration of new transport mediums that facilitate C3 services. The decrease of -\$0.413 from FY 2016 to FY 2017 is due to a reduction of Joint System Engineering & Integration Office engineering and analysis efforts supporting Ultra High Frequency (UHF) Emergency Network (UEN) ground entry points (GEPs) re-siting and network infrastructure redesign. FY 2018 Plans: Will continue to engineering and integrate the modernization of NMCS capabilities (e.g. transition platforms, data interfaces, security and graphical user interfaces) as the NMCS Systems Engineer IAW CJCSI 3280 and CJCSI 5119. Will focus on the improvement of collaborative services, and the integration of new transport mediums that facilitate C3 services. Integrate applicable portions of the NMCS into the National Leadership Command Capability (NLCC) portfolio. The increase of +\$1.367 from FY 2017 to FY 2018 is due to application of the NLCC Configuration Management process to applicable NMCS systems and to provide engineering support for Northstar and SATSTAR services transition to new NLCC transport infrastructure. This increase is partially offset by a decrease of -\$0.079 attributed to the Service Requirements Review Board (SSRB) contract reduction.											
Accomplishments/Planned Programs Subtotals								0.938	0.575	1.863	
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u> <u>Base</u>	<u>FY 2018</u> <u>OCO</u>	<u>FY 2018</u> <u>Total</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• O&M, DW/PE	3.053	3.156	4.306	-	4.306	4.342	4.485	4.553	4.615	Continuing	Continuing
0302016K: O&M, DW											
Remarks											
D. Acquisition Strategy											
During FY2017 a full and open competition will be conducted for an NLCC Systems Engineering and Technical Assistance (SETA) contract to provided programmed support to JSEIO in FY2018 as follow-on to the previous contract with Raytheon, Arlington, VA.											

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E. Performance Metrics

The JSEIO conducts regularly scheduled In-progress Program Reviews (IPRs) and Configuration Control Board (CCB) meetings to monitor status of engineering projects/tasks. Each current project/task is evaluated in terms of how well the technical work is progressing and how allocated resources are being utilized. Adjustments to resources, schedules, and technical directions are made, as required. Future projects/tasks are also discussed, thereby ensuring an integrated approach is maintained across all related project/task areas. To further increase the utility of the IPR/CCB structure, the Joint Staff customer participates in the project/task reviews. The result of this approach is a truly integrated effort of NMCS Engineering, contractor, and Joint Staff working together to achieve common program goals. Suitable products are delivered within allocated resources and delivered on schedule 90% of the time.

The NMCS met all FY 2016 performance metrics and is on track to meet its FY 2017 and FY 2018 metrics by delivering suitable products on schedule and within allocated resources 100% of the time.