

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Defense Information Systems Agency **Date:** February 2016

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i>
---	---

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	127.810	12.671	13.735	12.206	-	12.206	14.893	14.967	14.606	14.898	Continuing	Continuing
T64: <i>Special Projects</i>	60.737	5.197	5.170	5.207	-	5.207	5.198	5.309	5.309	5.416	Continuing	Continuing
T70: <i>Strategic C3 Support</i>	67.073	7.474	8.565	6.999	-	6.999	9.695	9.658	9.297	9.482	Continuing	Continuing

A. Mission Description and Budget Item Justification

Minimum Essential Emergency Communications Network (MEECN) provides the Nuclear Command, Control, and Communications (NC3) Engineer with plans and procedures, systems analysis, operational assessments, systems engineering, and development of concepts of operation and architectures. The NC3 System provides connectivity from the President and the Secretary of Defense through the National Military Command System to nuclear execution forces integral to fighting a "homeland-to-homeland," as well as theater nuclear war. MEECN includes the Emergency Action Message dissemination systems and those systems used for integrated Tactical Warning/Attack Assessment, presidential decision-making conferencing, force report back, re-targeting, force management, and requests for permission to use nuclear weapons. Efforts assure positive control of nuclear forces and connectivity between the Secretary of Defense, military forces, and an informed decision-making linkage between the President, the Secretary of Defense, and the Combatant Commands. MEECN ensures our national leadership has proper command and control of our forces during times of national emergency, up to and including nuclear war.

B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	12.671	13.735	13.915	-	13.915
Current President's Budget	12.671	13.735	12.206	-	12.206
Total Adjustments	0.000	0.000	-1.709	-	-1.709
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustment	-	-	-1.709	-	-1.709

Change Summary Explanation

Classified

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Defense Information Systems Agency **Date:** February 2016

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) T64 / <i>Special Projects</i>
--	---	---

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
T64: <i>Special Projects</i>	60.737	5.197	5.170	5.207	-	5.207	5.198	5.309	5.309	5.416	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The mission is performing classified work. All aspects of this project are classified and require special access. Detailed information on this project is not contained in this document.

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

	FY 2015	FY 2016	FY 2017
<i>Title:</i> Special Projects	5.197	5.170	5.207
<i>FY 2015 Accomplishments:</i> Classified.			
<i>FY 2016 Plans:</i> Classified.			
<i>FY 2017 Plans:</i> Classified			
Accomplishments/Planned Programs Subtotals	5.197	5.170	5.207

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

N/A

Remarks

D. Acquisition Strategy

Classified.

E. Performance Metrics

Classified.

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2017 Defense Information Systems Agency		Date: February 2016
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) T64 / <i>Special Projects</i>

FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

<i>Classified</i>	
Classified	

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2017 Defense Information Systems Agency		Date: February 2016
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) T64 / <i>Special Projects</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Classified				
Classified	1	2015	4	2021

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Defense Information Systems Agency										Date: February 2016		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i>				Project (Number/Name) T70 / <i>Strategic C3 Support</i>			
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
T70: <i>Strategic C3 Support</i>	67.073	7.474	8.565	6.999	-	6.999	9.695	9.658	9.297	9.482	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project supports the mission of the Nuclear Command, Control, and Communications (NC3) Systems Engineer to the Joint Staff and Executive Leadership. It also provides NC3 expertise to the Department of Defense (DoD) Chief Information Officer (CIO) National Leadership Command Capability (NLCC) Management Office. Systems Analysis supports long range planning and vulnerability assessments to ensure the NC3 System is adequate under all conditions of stress or war and recommends investment strategies to evolve the Nuclear Command and Control System to achieve desired capabilities. Operational Assessments of fielded systems and weapon platforms provide the sole means for verification of NC3 systems' performance in support of plans and procedures, operation orders, training, equipment, and end-to-end system configuration. Assessments provide strategic and theater level C3 interfaces into the NC3 System. Supporting efforts assure positive control of nuclear forces and connectivity between the Secretary of Defense and strategic and theater forces. Systems Engineering provides the Senior Leadership C3 System with technical and management advice, planning and engineering support, and Test & Evaluation. Leading Edge Command, Control, Communications, Computers, and Intelligence technology is assessed for all communication platforms supporting executive travelers and senior leaders to include the interoperability of hardware and operational procedures. These technology elements support the President's and other DoD command centers and aircraft (e.g., Air Force One and the National Airborne Operations Center).

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

	FY 2015	FY 2016	FY 2017
Title: Systems Analysis	2.370	0.000	0.000
FY 2015 Accomplishments: Made updates for the NLCC Program Tracking Report, the NC3 System Description and Architecture Diagrams and the NC3 Scenarios document. Supported engineering, documenting, and assessing the current NC3 implementation architectures and identifying system vulnerabilities; further expanding the NC3 future architecture and development of a robust investment roadmap to support the overall NLCC mission of the Joint Systems Engineering and Integration Office (JSEIO) and communications capabilities of the Senior DOD decision makers.			
FY 2016 Plans: N/A			
The decrease of -\$2.370 from FY 2015 to FY 2016 reflects the realignment of various JSEIO engineering/ technical efforts towards an integrated construct that provides holistic Systems Engineering, Analysis, and Architecture support.			
FY 2017 Plans:			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Defense Information Systems Agency		Date: February 2016		
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) T70 / <i>Strategic C3 Support</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2015	FY 2016	FY 2017
N/A				
<p>Title: Operational Assessments</p> <p>FY 2015 Accomplishments: Planned and executed of recurring operational assessments of the NC3 System.</p> <p>FY 2016 Plans: N/A</p> <p>The decrease of -\$3.382 from FY 2015 to FY 2016 reflects the realignment of various JSEIO engineering/ technical efforts towards an integrated construct that provides holistic Systems Engineering, Analysis, and Architecture support.</p> <p>FY 2017 Plans: N/A</p>		3.382	0.000	0.000
<p>Title: Systems Engineering</p> <p>FY 2015 Accomplishments: Provided systems engineering for airborne command centers and other command aircraft communications systems. Continued development of the Senior Leadership C3 System (SLC3S) System Description documents.</p> <p>FY 2016 Plans: N/A</p> <p>The decrease of -\$1.722 from FY 2015 to FY 2016 reflects the realignment of various JSEIO engineering/ technical efforts towards an integrated construct that provides holistic Systems Engineering, Analysis, and Architecture support.</p> <p>FY 2017 Plans: N/A</p>		1.722	0.000	0.000
<p>Title: Systems Engineering, Analysis and Architecture</p> <p>FY 2015 Accomplishments: N/A</p> <p>FY 2016 Plans: Implement a portfolio management and configuration control construct to facilitate integration and modernization of continuity of operations/continuity of government (COOP/COG), NC3 and Senior Leader Command, Control, and Communications Systems</p>		0.000	8.565	6.999

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Defense Information Systems Agency		Date: February 2016
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) T70 / <i>Strategic C3 Support</i>

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

	FY 2015	FY 2016	FY 2017
(SLC3S) capabilities that modernize and increase NLCC performance requirements. Continue updates for the Program Tracking Report, NC3 Architecture Diagrams and NC3 Scenarios document to improve NLCC capabilities. Develop engineering solutions and documentation to improve NLCC future capabilities as well as perform operational assessments of the communication platforms to identify performance, operational and any potential vulnerabilities. Expand NLCC future architecture and roadmap to identify return on investment constructs and improve/modernize NLCC capabilities.			
The increase of +\$8.565 from FY 2015 to FY 2016 was the result of a realignment of various JSEIO engineering/ technical program-focused efforts towards a single effort focused on the development of integrated holistic Systems Engineering, Analysis, and Architecture support to ensure tightly coupled solutions.			
FY 2017 Plans: Will continue oversight and configuration control of the NLCC functional baseline. Will continue to identify NLCC capability gaps, and develop engineering courses of action to close those gaps. Will continue to shape plans for future NLCC capabilities, perform end-to-end testing of fielded capabilities, and perform operational assessments of current capabilities to provide quantitative measures of ongoing system performance and operational efficiency. Will continue to develop the NLCC Reference Architecture, its associated NLCC Roadmap, and the technical architecture patterns that will guide future solution architecture development.			
The decrease of -\$1.566 from FY 2016 to FY 2017 is a result of decreased end-to-end user assessments for Senior Leader communications and mission effectiveness and a reduction in engineering activities supporting the transition of NLCC future capabilities to full operational capability.			
Accomplishments/Planned Programs Subtotals	7.474	8.565	6.999

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

Line Item	FY 2015	FY 2016	FY 2017	FY 2017	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Cost To	
			Base	OCO	Total					Complete	Total Cost
• O&M, PE 0303131K: O&M	13.629	15.366	19.160	-	19.160	26.809	27.017	27.200	27.684	Continuing	Continuing

Remarks

D. Acquisition Strategy

Full and open competition resulted in contract vehicles with Raytheon, Arlington, VA; Science Applications Int'l Corporation (SAIC), McLean, VA; and Pragmatics, Mclean, VA.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Defense Information Systems Agency		Date: February 2016
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) T70 / <i>Strategic C3 Support</i>

E. Performance Metrics

Performance is measured by compliance with contract deliverables schedules for specifically included products, such as: operational assessment plans, operational reports; revisions to the Joint Staff's Emergency Action Procedures (EAP-CJCS) Volumes VI and VII; NC3 System Description documents, and Nuclear C3 Architecture Diagrams. In addition, performance of the Nuclear C3 System is directly measured by the operational assessments funded by this program element. These periodic assessments evaluate the connectivity used for the five functions of Nuclear command and control: Situation Monitoring, Planning, Decision Making, Force Execution, and Force Management. Assessment results are used by the Joint Staff to direct changes in system engineering and integration, programmatic execution, and training.

Specific performance metrics include the following:

Provide engineering products in all task areas that satisfy DoD/CIO and Joint Staff needs within allocated resources 90% of the time.

Conduct assessments of the NC3 system and the SLC3S that provide actionable results and recommendations for the Joint Staff and DoD/CIO to pursue improvements to these capabilities 90% of the time.

MEECN achieved all its FY 2015 performance metrics and is on track to achieve the FY 2016 and FY 2017 targets of provisioning the Joint Staff requirements within the allocated resources 90% of the time.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Defense Information Systems Agency											Date: February 2016				
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i>					Project (Number/Name) T70 / <i>Strategic C3 Support</i>				

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Systems Engineering 1	C/CPAF	SAIC : McLean, VA	15.196	2.432	Aug 2015	2.432	Aug 2016	1.639	Aug 2017	-		1.639	Continuing	Continuing	Continuing
Systems Engineering 2	C/CPAF	Raytheon Company : Arlington, VA	28.965	3.293	Feb 2015	3.342		-		-		-	Continuing	Continuing	Continuing
Systems Engineering 3	C/CPFF	Pragmatics : McLean, VA	10.080	-		-		-		-		-	0	10.080	10.080
Systems Engineering 4	C/FP	Raytheon Company : Arlington, VA	6.059	1.749	Feb 2015	1.749	Feb 2016	4.419	Feb 2017	-		4.419	Continuing	Continuing	Continuing
Systems Engineering 5	C/CPFF	BAH : Falls Church, VA	4.273	-		-		-		-		-	0.00	4.273	4.2.73
Systems Engineering 6	C/CPFF	Harris Corporation : Melbourne, FL	2.500	-		-		-		-		-	0.00	2.500	2.500
Systems Engineering 7	C/CPAF	Carson Engineering : Bethesda, MD	-	-		1.042	Jun 2016	-		-		-	Continuing	Continuing	Continuing
System Engineering 8	C/FFP	MITRE Corp : McLean, VA	-	-		-		0.941	Sep 2017	-		0.941	Continuing	Continuing	Continuing
Subtotal			67.073	7.474		8.565		6.999		-		6.999	-	-	-
Project Cost Totals			67.073	7.474		8.565		6.999		-		6.999	-	-	-

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2017 Defense Information Systems Agency		Date: February 2016
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) T70 / <i>Strategic C3 Support</i>

	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
NC3 Program Tracking Report																												
NC3 Program Tracking Report																												
Systems Analysis Documents																												
Systems Analysis Documents																												
NC3 Reference Architecture																												
NC3 Reference Architecture																												
Operational Assessments																												
Operational Assessments																												
NLCC Portfolio Roadmap																												
NLCC Portfolio Roadmap																												
NLCC System Engineering and Integration																												
NLCC System Engineering and Integration																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2017 Defense Information Systems Agency		Date: February 2016
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i>	Project (Number/Name) T70 / <i>Strategic C3 Support</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
NC3 Program Tracking Report				
NC3 Program Tracking Report	1	2015	3	2021
Systems Analysis Documents				
Systems Analysis Documents	1	2015	4	2021
NC3 Reference Architecture				
NC3 Reference Architecture	1	2015	4	2021
Operational Assessments				
Operational Assessments	1	2015	4	2021
NLCC Portfolio Roadmap				
NLCC Portfolio Roadmap	1	2015	1	2019
NLCC System Engineering and Integration				
NLCC System Engineering and Integration	1	2015	1	2021