

UNCLASSIFIED

Exhibit R-2, RDT&E Project Justification				Date: February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/07				R-1 ITEM NOMENCLATURE Long Haul Communications - DCS/PE 0303126K			
Cost (\$ in millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total Program Element	5.360	16.382	8.508	7.568	7.476	6.690	6.684
Defense Information System Network (DISN) Systems Engineering Support/T82	5.360	1.487	5.537	5.610	5.525	5.716	5.716
National Emergency Action Decision Network (NEADN)/PC01	-	14.895	2.971	1.958	1.951	0.974	0.968

A. Mission Description and Budget Item Justification:

These funds finance the systems engineering, development, test, and integration of equipment and products into the DISN or other networks to either refresh technology or optimize system performance.

DISN Systems Engineering Support: This funding will result in the following capabilities: 1) optimized access and use of the Element Management Systems (EMS) and Network Management Systems (NMS) which are front-end applications utilized by worldwide DISN users; 2) improvements to the Secure Voice over Internet Protocol (VoSIP) which provides DISN-wide network element management; the development of critical features for Secure Voice over IP Real Time Services (RTS) that are beyond the features of commercial VoIP offerings; and operation requirements associated with Internet Protocol version 6 (IPv6); 3) implement technologies into the National Command and Control System (NCCS) as part of the Distributed Ground Network supporting the United States Strategic Command; and, 4) refreshment of the SDS-1 switches which are at end of life and must be replaced by modifying the current DSS-2A Secure Voice switch which are vital to the Defense Red Switch Network.

NEADN: System engineering, planning, development, integration, and testing of new baseband (cryptographic and voice encoder/vocoder) equipment are needed to provide survivable, near toll-quality voice conferencing capability for the President, Secretary of Defense, Chairman, Joint Chiefs of Staff, and other national/military leaders. This project includes the critical and essential engineering required to develop new vocoder and cryptographic equipment by taking advantage of ongoing RDT&E efforts by another Defense component. These baseband devices, implement new technology capabilities such as multi-stream cryptography/vocoding and information technology capabilities such as baseband Ethernet interfaces supporting baseband Internet Protocol (IP) addressing. This project implements Joint Staff requirements for Advanced Extremely High Frequency (AEHF) voice conferencing in synchronization with the AEHF terminal fielding schedules.

UNCLASSIFIED

Exhibit R-2a, RDT&E Project Justification		Date: February 2008					
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/07		PROGRAM NAME AND NUMBER Defense Information Systems Network (DISN)Systems Engineering Support/T82					
Cost (\$ in millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Defense Information Systems Network (DISN)Systems Engineering Support/T82	5.360	1.487	5.537	5.610	5.525	5.716	5.716

A. Mission Description and Budget Item Justification:

Funds Systems Engineering for Operations Support Systems (OSS) which are comprised of the service, network, and element management; service support systems; and network operations of the DISN and other entities. Specifically, system engineering for a Single Sign-on solution, an OSS Web Portal, data mediation/Service Oriented Architecture, the test, evaluation, and integration of a COTS-based replacement for the end-of-life components of the World Wide On-Line System (WWOLS).

Includes systems engineering for Secure Voice over Internet Protocol (VoIP) Real Time Services (RTS) which provides DISN-wide network element management for the day-to-day operations of the DOD and serves as the core of DOD wartime communications for the President and Secretary of Defense, the Joint Chiefs of Staff (JCS), the Combatant Commanders, and other critical users. Provides the engineering to consolidate operational communications networks into DISN and supports the convergence of Service and Agency network services (i.e. telephony, video, etc) into the GIG. Also, the critical and essential engineering required to modify/expand upon commercial equipment and service offerings, to implement rapidly advancing communications technology, to update network design tools in order to continue providing cost savings, and to continue offering valuable new cost effective information technology capabilities and services to customers. Also funds system engineering evaluations and development of critical features for Secure VoIP Real Time Services (RTS) that is beyond the features of commercial VoIP offerings. These special features such as Multi-Level Security, Quality of Service, Assured Service, large conference management and control are necessary capabilities that must be developed for a Secure VoIP application to be able to replace the existing TDM Defense Red Switch Network (DRSN). Funds are planned in FY 2008 and FY 2009 to support operational requirements associated with Internet Protocol version 6 (IPv6).

The Distributed Ground Network (DGN) is required to support New Triad Command, Control, and Communications missions assigned to United States Strategic Command (USSTRATCOM). This funding provides systems engineering, planning, and development of broadband, survivable, voice, video, and data capability for Commander USSTRATCOM support to the President, Secretary of Defense, Chairman, JCS, and other national/military leaders. This project includes the critical

R-1 Line Item No. 179

(Exhibit R-2a, Page 2 of 16)

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2a, RDT&E Project Justification		Date: February 2008					
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/07		PROGRAM NAME AND NUMBER Defense Information Systems Network (DISN)Systems Engineering Support/T82					
Cost (\$ in millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Defense Information Systems Network (DISN)Systems Engineering Support/T82	5.360	1.487	5.537	5.610	5.525	5.716	5.716

and essential engineering required to implement technologies such as Asynchronous Transfer Mode (ATM) and Dense Wave Division Multiplexing (DWDM) into the National Command and Control System (NCCS).

Also includes software development and system integration and testing for modifying the current technology DSS-2A Secure Voice switch with improvements to increase the capacity of the switch so that it can be used to replace the large SDS-1 model switches in the Defense Red Switch Network which are at end of life and must be replaced. This funding provides incremental multiyear effort to scale up the existing DSS-2A switch capacity so that the Services and Agencies can purchase and install the modified switch to replace their obsolete SDS-1 switches. Secure voice switches must meet a number of military unique requirements for multilevel security, extensive conferencing and conference management capabilities and features, and gateway functions that are not available in commercial products.

B. Accomplishments/Planned Program:

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Subtotal Cost	0.914	0.892	0.922

Systems Engineering for DISN Operations Support System (OSS) - Provide research, evaluation and test of a Single Sign-on solution which will enable consumers of the DISN OSS information to access all authorized information from a single account. The objective of the Single Sign-on solution is to manage the access control and authorization process for each application automatically through a single login session. Currently, the DISN OSS employs an array of access control mechanisms, which include SecureID, token-based, CAC, and username/password. There is no consistent login mechanism, and the management of the multiple processes increases the operational expense. The Single Sign-on solution will streamline the user's access method and reduce operational expenses.

Provide systems research, evaluation, test and development of a centralized DISN OSS web-based content application (known as the OSS Central) aimed at integrating functionality, data, searching, and maintenance of several key DISN OSS applications. The objective of the OSS Central is to provide and maintain a single user interface for DISN service orders, service reports, network alarms, trouble tickets, network inventory, network performance information, and a

UNCLASSIFIED

Exhibit R-2a, RDT&E Project Justification		Date: February 2008					
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/07		PROGRAM NAME AND NUMBER Defense Information Systems Network (DISN)Systems Engineering Support/T82					
Cost (\$ in millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Defense Information Systems Network (DISN)Systems Engineering Support/T82	5.360	1.487	5.537	5.610	5.525	5.716	5.716

central search capability to internal and external DISN user groups without the need to have the users log directly into each individual DISN Operations Support Systems (OSS) application. Internal groups include network operators and system engineers responsible for maintaining the DISN and external users consist of DOD wide DISN customers ordering services. The OSS Central will be accessible to all users on the NIPRNET and SIPRNET through a single URL and login, and all content will have the same look and feel.

This project also includes the research, evaluation, development, test and integration of a COTS-based data mediation mapping utility to support the administration and maintenance of the DISN OSS Service-Oriented Integration infrastructure. The objective of data mediation is integrating all network management systems which comprise the OSS under an already defined common data model. For the DISN OSS, data mediation provides information sharing for a unified operational picture. This will be achieved through the use of Service Oriented Architecture principles and technologies, which will be flexible and scalable among the critical OSS systems that provide network management, element management and service management support. The mapping utility will move the custom-developed interfaces for sharing information to a graphical user interface, where the system owners will be able to manage their own data sharing requirements without requiring low-level programming. The outcome will be lower costs for integration and maintenance support and an environment which is highly adaptable to business changes and new requirements. Data mediation is critical among OSS to achieving information sharing under the goals of DoD net-centricity through the concept and architecture of the Global Information Grid. The data mediation tool funded by this effort will move the mediation logic administration from the software programming level to a visual configuration level.

This funding will also provide research, evaluation and testing for the WWOLS system. The WWOLS is a service support system which provides status, tracking and reporting of product ordering for DISA. The funding will provide research, evaluation, test and integration to move the DISN service ordering system from a custom-developed solution to a COTS solution.

Subtotal Cost	<u>FY 2007</u> 0.589	<u>FY 2008</u> 0.595	<u>FY 2009</u> 0.615
---------------	-------------------------	-------------------------	-------------------------

R-1 Line Item No. 179

(Exhibit R-2a, Page 4 of 16)

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2a, RDT&E Project Justification		Date: February 2008					
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/07		PROGRAM NAME AND NUMBER Defense Information Systems Network (DISN)Systems Engineering Support/T82					
Cost (\$ in millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Defense Information Systems Network (DISN)Systems Engineering Support/T82	5.360	1.487	5.537	5.610	5.525	5.716	5.716

Systems Engineering for Secure Voice over Internet Protocol (VoIP) - Provided systems engineering to develop and insert new communications technologies into the DISN by performing assessments and proof of concept implementations. Engineered the insertion of technology into the DISN Secure VoIP, IP Class of Service/Quality of Service (CoS/QoS), Multi-Level Security for Voice Real Time Services. New efforts involved developing overarching design for next generation routing/QoS/CoS, and IP enabled Services such as Telephony.

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Subtotal Cost	3.857	0.000	0.000

Systems Engineering for Distributed Ground Network (DGN) - Provides systems engineering, planning, and development of broadband, survivable, voice, video, and data capability for Commander USSTRATCOM support to the President, Secretary of Defense, Chairman, Joint Chiefs of Staff, and other national/military leaders. This project includes the critical and essential engineering required to implement technologies such as Asynchronous Transfer Mode (ATM) and Dense Wave Division Multiplexing (DWDM) into the National Command and Control System (NCCS).

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Subtotal Cost	0.000	0.000	4.000

Systems Engineering for DSS-2A switch replacement - This funding will provide incremental funding over FY 2009 and FY 2010 for system integration, software modification, system testing and information assurance validation and accreditation of a modified version of the existing DSS-2A secure voice switch. This modified version will support up to three times the capacity of the current DSS-2A model, with all the same military unique features and capabilities. Final result will be a complete large capacity secure voice switch capable of replacing the large obsolete SDS-1 switches currently in use in the Defense Red Switch Network and the White House Communications Agency controlled secure voice network. Once developed and accredited, the services and agencies will procure and install the switches. The SDS-1 switch is at end of life and is not expected to be logistically supportable past FY 2010.

UNCLASSIFIED

Exhibit R-2a, RDT&E Project Justification		Date: February 2008					
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/07		PROGRAM NAME AND NUMBER Defense Information Systems Network (DISN)Systems Engineering Support/T82					
Cost (\$ in millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Defense Information Systems Network (DISN)Systems Engineering Support/T82	5.360	1.487	5.537	5.610	5.525	5.716	5.716

C. Other Program Funding Summary: N/A

D. Acquisition Strategy: For EMS, continue with the same acquisitions that include a Small Disadvantaged contractor under the DISN Global Services (DGS) contract. Procure test hardware and tools from a variety of Commercial Off-the-Shelf vendors. For Secure VoIP Real Time Services (RTS), MIPR funds to NSA to contract with their security technology firms for studies and specification development for Multi-Level Security implementations for Secure Voice RTS. Use existing DISA contracts to study and develop specifications for IP Class of Service/Quality of Service and Assured Service. For DGN, continue to use existing DISN support contracts for engineering and technical assistance. The DSS-2A Large switch modification will use an existing Air Force contract with the DSS-2A manufacturer to perform the development and modification work, system integration and testing support.

E. Performance Metrics:

1. Planned versus actual schedule (difference in days) for major milestones/deliverables.
2. Number of planned versus actual funds spent.
3. Adherence of contractor deliverables to SOW specifications.
4. Compliance with Performance Surveillance Plans contained in contracted efforts.

Specific OSS metrics:

Number of systems migrated to Single Sign-On Solution	7 (Target)
Test and evaluation will be completed for the data mediation tool	100% Complete (1st quarter FY 2009 Target)
Development of the OSS Central	100% Complete (2nd quarter FY 2009 Target)

NCLASSIFIED

Exhibit R-3 RDT&E Cost Analysis								Date: February 2008				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NAME AND NUMBER				
RDT&E, Defense-Wide/07			PE 0303126K					Long-Haul Communications - DCS/T82				
<u>Cost Category</u>	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total PY Cost (\$000)</u>	<u>FY07 Cost (\$000)</u>	<u>FY07 Award Date</u>	<u>FY08 Cost (\$000)</u>	<u>FY08 Award Date</u>	<u>FY09 Cost (\$000)</u>	<u>FY09 Award Date</u>	<u>Cost To Complete (\$000)</u>	<u>Total Cost (\$000)</u>	<u>Target Value of Contract</u>
Systems Engineering for Element Management Systems(EMS) and Service Management Systems (SMS)	DGS & Time and Materials	Apptis/SAIC -DISA	0.570	0.914	5/07	0.892	10/07	0.922	10/08	Cont'g	Cont'g	N/A
Systems Engineering for Secure Voice over Internet Protocol (VoIP)	Various	Various performers	0.000	0.589	03/07	0.595	12/07	0.615	TBD	Cont'g	Cont'g	N/A
Systems Engineering for Distributed Ground Network (DGN)	Various	Various	0.000	3.857	11/07	0.000		0.000		Cont'g	Cont'g	N/A

R-1 Line Item No. 179

(Exhibit R-3, page 7 of 16)

UNCLASSIFIED

NCLASSIFIED

Exhibit R-3 RDT&E Cost Analysis								Date: February 2008				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NAME AND NUMBER				
RDT&E, Defense-Wide/07			PE 0303126K					Long-Haul Communications - DCS/T82				
<u>Cost Category</u>	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total PY Cost (\$000)</u>	<u>FY07 Cost (\$000)</u>	<u>FY07 Award Date</u>	<u>FY08 Cost (\$000)</u>	<u>FY08 Award Date</u>	<u>FY09 Cost (\$000)</u>	<u>FY09 Award Date</u>	<u>Cost To Complete (\$000)</u>	<u>Total Cost (\$000)</u>	<u>Target Value of Contract</u>
System Engineering for DSS-2A Secure Voice Switch	Air Force CCSS Contract, Time & Materials	Raytheon	3.200	0.000		0.000		4.000	TBD	Cont'g	Cont'g	N/A
		TOTAL		5.360		1.487		5.537		Cont'g	Cont'g	N/A

R-1 Line Item No. 179

(Exhibit R-3, page 8 of 16)

UNCLASSIFIED

UNCLASSIFIED

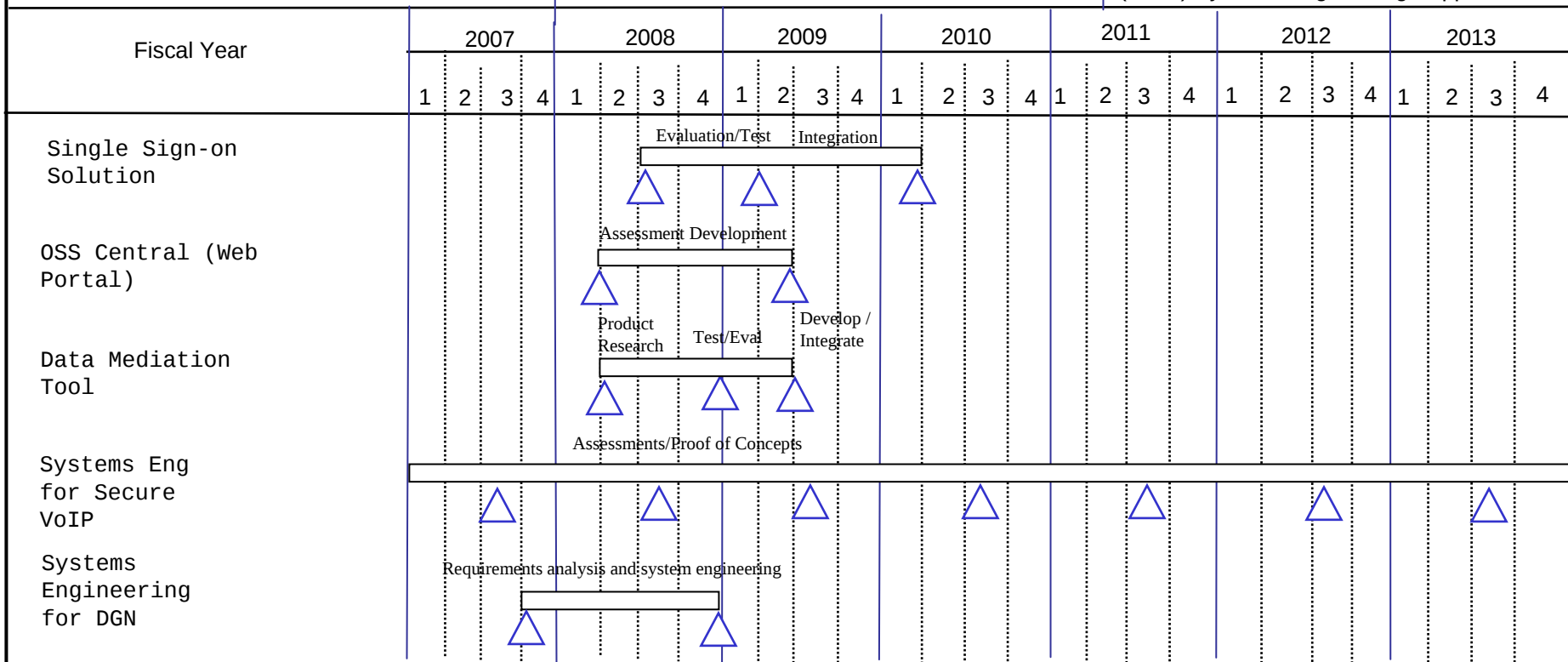
Exhibit R-4, RDT&E Program Schedule Profile

Date: February 2008

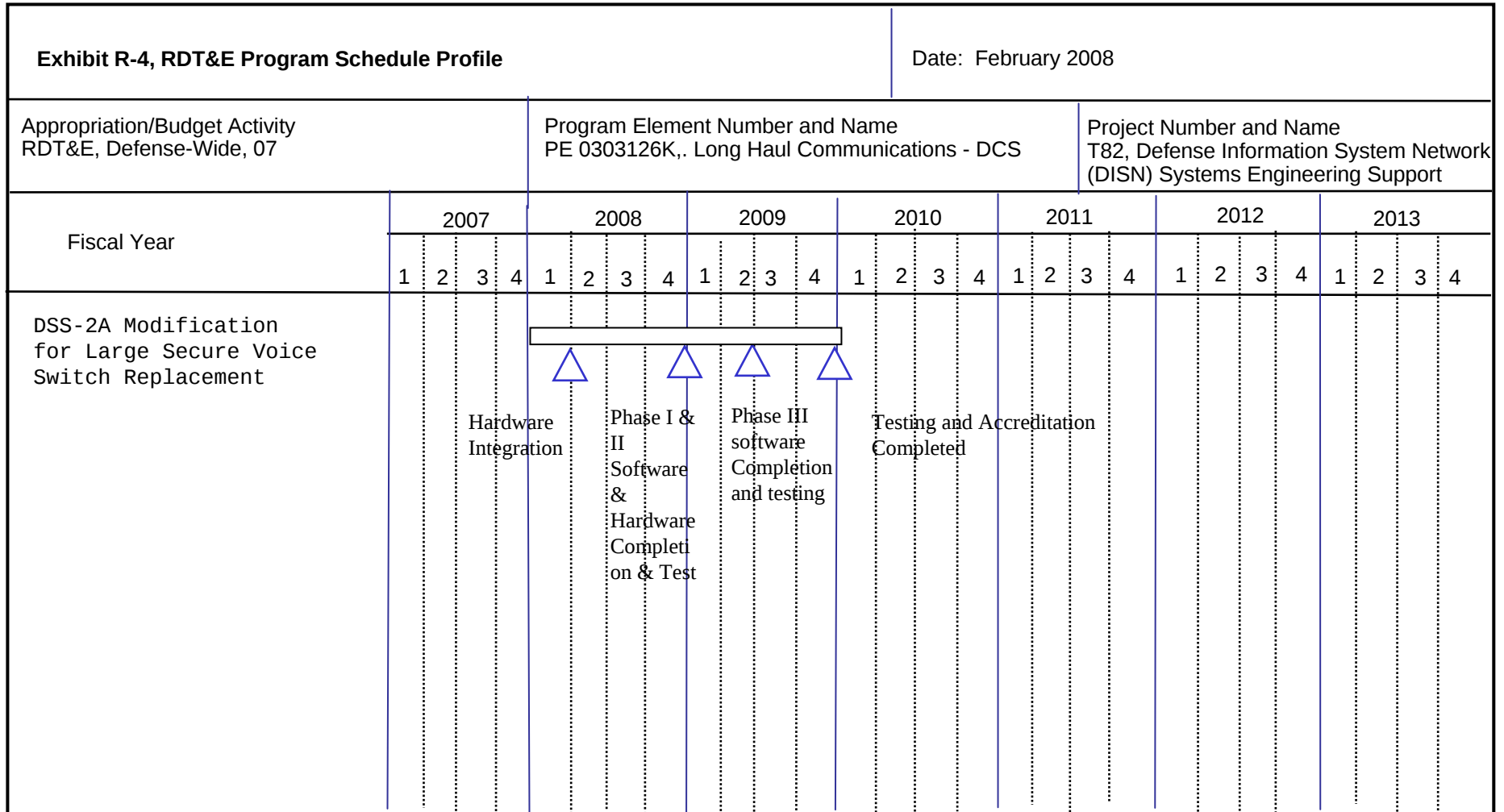
Appropriation/Budget Activity
RDT&E, Defense-Wide, 07

Program Element Number and Name
PE 0303126K, Long Haul Communications - DCS

Project Number and Name
T82, Defense Information System Network
(DISN) Systems Engineering Support



UNCLASSIFIED



R-1 Line Item No. 179

Page 10 of 16

R-4 Program Schedule Profile

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-4a Schedule Detail			DATE: February 2008					
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME					
RDT&E, Defense-Wide/07	PE 0303126K/Long Haul Communications-DCS		T82/DISN Systems Engineering Support					
Schedule Profile	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	
Systems Engineering for Single Sign-on Solution:								
Product Evaluation & Testing		2-3Q						
Product Integration		4Q	1-2Q					
OSS Central Development:								
Assessments/Proof of Concepts		2-3Q						
Development		4Q	1-2Q					
Data Mediation Tool:								
Product Research		2Q						
Product Test & Evaluation		3-4Q						
Development & Implementation			1-2Q					
Systems Engineering for Secure Voice over Internet Protocol (VoIP)		2-4Q	1-4Q	1-4Q	1-4Q	1-4Q		
Systems Engineering for Distributed Ground Network (DGN)	4Q	1-4Q						
DSS-2A Modification for Large Secure Voice Switch Replacement			1-4Q	1-4Q				

Exhibit R-2a, RDT&E Project Justification				Date: February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/07	PROJECT NAME AND NUMBER National Emergency Action Decision Network (NEADN)/PC01						
Cost (\$ in millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
National Emergency Action Decision Network (NEADN)/PC01	0.000	14.895	2.971	1.958	1.951	0.974	0.968

A. Mission Description and Budget Item Justification:

As the National Emergency Action Decision Network (NEADN) formerly the Presidential and National Voice Conferencing (PNVC) project lead and system engineer, this PE also funds system engineering, planning, development, integration, and testing of new baseband (cryptographic and voice encoder/vocoder) equipment needed to provide survivable, near toll-quality voice conferencing capability for the President, Secretary of Defense, Chairman, Joint Chiefs of Staff, and other national/military leaders. This project includes the critical and essential engineering required to develop new vocoder and cryptographic equipment by taking advantage of ongoing RDT&E efforts by another Defense component. These baseband devices, implement new technology capabilities such as multi-stream cryptography/vocoding and information technology capabilities such as baseband Ethernet interfaces supporting baseband Internet Protocol (IP) addressing. This project implements DoD requirements for Advanced Extremely High Frequency (AEHF) voice conferencing in synchronization with the AEHF terminal fielding schedules.

B. Accomplishments/Planned Program:

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Subtotal Cost	0.000	14.895	2.971

The primary effort in FY 2008 is to contract for the two-year NEADN Baseband Interface Group (vocoder/crypto) development effort; to continue engineering and technical analysis to ensure terminal, baseband, and satellite synchronization; and, to conduct a refresh of the BIG (crypto/vocoder) technical specifications to meet the goal of beginning production at the start of FY 2010. In FY 2008, funds pay for the development (approximately 18 months) engineering (65,800 man-hours), and technical efforts to produce eight Engineering Development Models (EDMs). In FY 2009 the NEADN equipment security and airworthiness certifications effort will commence. NEADN production, integration and installation (to be funded by the Services), and system testing are scheduled to start in FY 2010 and to be completed in conjunction with AEHF terminal fielding schedules.

Exhibit R-2a, RDT&E Project Justification				Date: February 2008				
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/07		PROJECT NAME AND NUMBER National Emergency Action Decision Network (NEADN)/PC01						
Cost (\$ in millions)		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
National Emergency Action Decision Network (NEADN)/PC01		0.000	14.895	2.971	1.958	1.951	0.974	0.968

C. Other Program Funding Summary:

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>
Procurement, DW	0.000	0.983	1.000	1.000	0.000	0.000	0.000
O&M, DW	0.000	1.122	0.274	0.205	0.136	0.061	0.063

D. Acquisition Strategy: DISA will select an acquisition agent for the development and certification of the new equipment (vocoder/crypto). In addition, an Indefinite Delivery, Indefinite Quantity (IDIQ) contractual vehicle will be established for BIG production in FY 2010 for procurement of BIG units by the Services and Agencies beginning in FY 2010. Engineering support services for the NEADN is provided by contract and FFRDC support. Full and open competition is used for the acquisition of support through existing DISA contracts.

E. Performance Metrics: NEADN Project metrics track the development of various documents: Project Management Plan (PMP), Concept of Operations (CONOPS), Test and Evaluation Master Plan (TEMP), and other documents needed to manage the project. Data metrics based on cost, schedule, and performance are used for the NEADN development and certification efforts. The Engineering Development Models from the development effort will be evaluated during Developmental Testing and Evaluation (DT&E) and security certification for performance compliance. System level testing will be conducted to validate that the performance meets the requirements of the Nuclear Technical Performance Criteria (CJCSI-6811.01A). The Project also uses the funding obligation rate (planned vs. actual) and financial reporting requirements as metrics throughout the life cycle of the project.

One million dollars is planned in FY08 and FY09 to support operational requirements associated with Internet Protocol version 6 (IPv6).

UNCLASSIFIED

Exhibit R-3 RDT&E Project Cost Analysis						Date: February 2008						
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/07			PROGRAM ELEMENT PE 0303126K				PROJECT NAME AND NUMBER National Emergency Action Decision Network (NEADN)/PC01					
<u>Cost Category</u>	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total PY Cost (\$000)</u>	<u>FY07 Cost (\$000)</u>	<u>FY07 Award Date</u>	<u>FY08 Cost (\$000)</u>	<u>FY08 Award Date</u>	<u>FY09 Cost (\$000)</u>	<u>FY09 Award Date</u>	<u>Cost To Complete (\$000)</u>	<u>Total Cost (\$000)</u>	<u>Target Value of Contract</u>
Systems Engineering and Development	MIPR	Army/TBD	-	-		13.795	9/08	1.871	08/09	Cont'g	15.666	
Engineering and Technical Support	FFRDC	Aerospace	-	-		0.700	10/07	0.700	10/08	Cont'g	2.870	
Engineering and Technical Support	CPFF	BAH	-	-		0.400	10/07	0.400	10/08	Cont'g	5.330	
TOTAL				-		14.895		2.971			23.866	

R-1 Line Item No. 179

(Exhibit R-3, page 14 of 16)

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-4, RDT&E Program Schedule Profile																Date: February 2008																
Appropriation/Budget Activity RDT&E, Defense-Wide, 07					Program Element Number and Name PE 0303126K, Long Haul Communications -DCS												Project Number and Name PC01, National Emergency Action Decision Network (NEADN)															
Fiscal Year					2007				2008				2009				2010				2011				2012				2013			
					1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Systems Engineering for National Emergency Action Decision Network (NEADN)																																
					CDP Development/BIG Development Certification and testing for BIG Production																											

UNCLASSIFIED

Exhibit R-4a, RDT&E Program Schedule Detail				Date: February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/07		PROGRAM ELEMENT NUMBER AND NAME PE 0303126K/Long Haul Communications - DCS			PROJECT NUMBER AND NAME PC01/National Emergency Action Decision Network (NEADN)		
<u>Schedule Profile</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>
Systems Engineering and Development		1-4Q	1-4Q				
Engineering and Technical Support		1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q

R-1 Line Item No. 179
(Page 16 of 16)

UNCLASSIFIED

R-4a Program Schedule Detail