CLASSIFICATION:								
EXHIBIT R-2, RDT&E Budget Item Justification						DATE:		
,							February 2005	ı
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMEN	ICLATURE		•	
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY	<i>l</i>	BA 7		0303109N Satellit	e Communications	(Space)		
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	\$155.3	\$463.5	\$542.0	\$795.9	\$804.3	\$660.7	\$351.5	\$129.4
0728 EHF SATCOM Terminals	\$56.7	\$49.7	\$50.8	\$84.4	\$91.2	\$105.4	\$55.4	\$17.3
0731 Fleet Satellite Comm	\$0.5	\$0.6	\$0.6	\$0.7	\$1.8	\$1.8	\$1.8	\$1.9
2472 Mobile User Objective System	\$84.4	\$389.4	\$470.0	\$688.3	\$632.0	\$486.1	\$220.0	\$53.6
9122 Advanced Wideband	\$12.0	\$18.0	\$20.5	\$22.4	\$79.4	\$67.4	\$74.2	\$56.6
9421 Joint Integrated Sys Tech for Adv Network Systems	\$0.0	\$4.8	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
9429 SPAWAR Covert Communications and Information Transfer	\$1.7	\$1.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Quantity of RDT&F Articles	10	2	2	21	5	16		

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

- (U) The Navy Extremely High Frequency (EHF) Satellite Communications (SATCOM) Program (NESP) provides for the development and production of terminals to provide anti-jam, low probability of intercept/detection communications capability for Command and Control of the Fleet. NESP operates with Fleet Satellite (FLTSAT) EHF Packages (FEP), Ultra High Frequency (UHF) Follow On (UFO), and Milstar I/II Satellite Packages. The Milstar program is comprised of satellites, control stations, and aircraft, ship, and ground terminals to provide assured worldwide, secure, anti-jam, survivable communications for the National Command Authority, CINCs, and operational commanders.
- (U) The Advanced EHF (AEHF) Operational Requirements Document (ORD) was validated by the Joint Requirements Oversight Council (JROC) on 22 Mar 1999. AEHF is the follow-on satellite communications system that will provide worldwide, secure, survivable satellite communications to U.S. and International Partners strategic and tactical forces during all levels of conflict. The Navy AEHF Multiband Terminal (NMT) Program is the required Navy component to the Advanced EHF Program for enhancing protected and survivable satellite communications to Naval forces. The system provides an increase in single service capability from 1.5 Mbps to 8 Mbps, increases the number of coverage areas and retains A/J, LPI protection characteristics. It is compatible with today's Navy LDR/MDR terminals and will sustain the MILSATCOM architecture by providing connectivity across the spectrum of mission areas, to include land, air and naval warfare, special operations, strategic nuclear operations, strategic defense, theater missile defense, and space operations and intelligence. The AEHF system will replenish and improve on the capabilities of the Milstar system and will equip the warfighters with the assured, jam resistant, secure communications as described in the ORD for the joint AEHF Satellite Communications System. The AEHF system will provide crosslinks within the constellation as well as between AEHF satellites and Milstar satellites in the backwards compatible mode. Mission requirements specific to Navy operations, including threat levels and scenarios, are contained in the AEHF ORD.

CLASSIFICATION:					
EXHIBIT R-2, RDT&E Budget Item Justification		DATE:			
		February 2005			
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE				
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA 7	0303109N Satellite Communication	s (Space)			
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:					
(U) The Sensitive Compartmented Information Networks (SCI Networks), is an evolutionary acquisition progras Systems with protected and reliable delivery of SI/SCI data through a secure, controllable network interface we hostile Information Warfare (IW). Technical, physical, and procedural security will be used to control access, posystem within an accredited security posture. This network connectivity will greatly expand the capability of creat their commanders, including situational awareness, indications and warning (I&W), enemy force intentions, provide real time indications and warning support to joint and component commanders through reliable high agencies, and allies will permit a level of integration of SI operations not achievable with current systems.	ith the ADNS architecture. Specifically, SCI Networks of the Compartment of Navy (DoN) information technologyptologic and intelligence personnel to fully interact with intelligence preparation for the battlefield, and battle of the comparation for the battlefield.	shall ensure the availability of networks in defiance of gy resources, and ensure continuous operation of the h shore based nodes to provide expanding support to damage assessment (BDA). The SCI Networks will			
constellation is expected to degrade below acceptable availability parameters in 2010. The MUOS program warfighter system. In addition, new user requirements have been identified and advanced concepts develop	(U) The Mobile User Objective System (MUOS) program provides for the development of the next generation DoD advanced narrowband communications satellite constellation. The current UHF Follow-On (UFO) constellation is expected to degrade below acceptable availability parameters in 2010. The MUOS program builds on state-of-the-art technologies and best commercial practices to develop a totally responsive joint warfighter system. In addition, new user requirements have been identified and advanced concepts developed to incorporate new programs and technologies which address the significant growth in requirements for military narrowband communications, as required per the approved joint interest MUOS Operational Requirements Document (ORD).				
(U) This RDT&E effort supports a USecAF approved IOC in 2010 and FOC in 2014. Two Component Advanced Development (CAD) contracts were awarded in Q4 FY 2002. The CAD contracts continued into FY 2004. A single Risk Reduction & Design Development (RRDD) contract was awarded in September 2004 after Key Decision Point (KDP) B, also in September 2004. With KDP-B, MUOS was officially designated a Department of Defense Space Major Defense Acquisition Program. Also included is software development for UFO TT&C Terminal and advanced planning and engineering for the terminals in FY2007.					
(U) The Navy Advanced Wideband Integrated Terminal Satellite Communications (SATCOM) program provintercept (LPI), Anti-Jam (AJ), communications capability to the Fleet. Terminals will support multiple data strenged for gateway terminals.					
(U) Covert Communications required for operational utilization.					
(U) The Joint Integrated System Technology for Advanced Networking Systems (JIST-NET) project is an on management, and control capabilities that interface with many mono-spectral planning and management too States Congress. The project was realigned to PEO C4I & Space from the United States Air Force starting in F	ols and with advanced planning tools. This project ha	s extremely high visibility within the DoD and United			

R-1 SHOPPING LIST - Item No. 193

This program is funded under operational systems development because it encompasses engineering and manufacturing development for upgrade of existing operational systems.

(U) JUSTIFICATION FOR BUDGET ACTIVITY:

CLASSIFICATION:									
EXHIBIT R-2a, RDT&E Project Justification								DATE:	
	1					T		February 2005	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEME	NT NUMBER AND	NAME		PROJECT NUMBER AND NAME			
RDT&E, N / BA-7	0303109N Satellite	e Communications (Space)			0728 EHF SATCOM Terminals			
COST (\$ in Millions)		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		\$56.672	\$49.659	\$50.834	\$84.425	\$91.159	\$105.383	\$55.392	\$17.306
RDT&E Articles Qty		8			20				

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

- (U) Navy Extremely High Frequency (EHF) Satellite Communications (SATCOM) Program provides for the development and production of terminals to provide anti-jam (A/J), low probability of intercept (LPI)/detection communications capability for Command and Control of the fleet. The terminals will provide physical and electromagnetically survivable, worldwide communications in the current and projected electromagnetic and nuclear threat environments. Navy EHF terminals are interoperable with Army and Air Force terminals and will operate with Milstar as well as EHF packages on-board Ultra High Frequency (UHF) Follow-On (UFO) Satellites 4 through 11 and FLTSATCOM Satellites 7 and 8. The increased capability provided by EHF terminals is accomplished by use of the wider bandwidths available at extremely high frequencies, narrow antenna bandwidths, spread spectrum techniques, on-board satellite processing, and advanced signal processing technology. The EHF Medium Data Rate (MDR) upgrade program is complete and provides increased bandwidth by providing higher data rates [4.8 kilobits per second (Kbps) 1.544 megabits per second (Mbps)) when communicating with Milstar II satellites.
- (U) The Navy EHF Communications Controller (NECC) provides automated, netted tactical data information exchange over jam resistant EHF Low Data Rate (LDR) satellite links. The NECC will provide for load and channel sharing, resource management, communications management and planning, network control and monitoring, and packet switching.
- (U) The EHF Time Division Multiple Access (TDMA) Interface Processor (TIP) will support wide area network (WAN) implementation through reliable, efficient, netted data exchange using MDR services. The MDR TIP combines support for general-purpose internet protocol (IP) data delivery and high speed, rapid delivery of tactical data within a single system architecture. TIP supports single-beam, multi-beam, and multi-satellite networks.
- (U) The Navy Super High Frequency (SHF) Satellite Communications (SATCOM) program provides for the development and production of terminals to provide high capacity, reliable, low probability of intercept (LPI), secure, and jam resistant communications to Joint and Allied Forces. SHF SATCOM operates with the Defense Satellite Communication System (DSCS), DSCS Service Life Extension Program (SLEP), and Wideband Gapfiller Satellite (WGS) System satellites. The SHF SATCOM system is comprised of satellites, ground stations, and aircraft, ship and ground terminals to provide assured worldwide access to services such as Defense Information Systems Network (DISN), Global Command and Control System (GCCS), Plain Old Telephone Service (POTS), Secure Telephone Unit III (STU III) Secure Communications Service, Internet Protocol Routed Networks, and other digital services. The satellite systems SHF SATCOM operate over are transitioning from old technology DSCS III satellites to the more advanced DSCS SLEP and WGS satellites beginning in FY 1999 and continuing through FY 2005. The population of Navy SHF SATCOM terminals is also growing at a rapid pace. In order to meet the communication requirements of Navy users, advanced communication technologies for SHF SATCOM terminals must be developed to take full advantage of the capabilities of the new satellites in an efficient manner.

CLASSIFICATION:			
EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N / BA-7	0303109N Satellite Communications (Space)	0728 EHF SATCOM Terminals	

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION (continued):

- (U) The Advanced EHF (AEHF) Operational Requirements Document (ORD) was validated by the Joint Requirements Oversight Council (JROC) on 22 Mar 1999. AEHF is the follow-on satellite communications system that will provide worldwide, secure, survivable satellite communications to U.S. and International Partners strategic and tactical forces during all levels of conflict. The Navy AEHF Multiband Terminal (NMT) Program is the required Navy component to the Advanced EHF Program for enhancing protected and survivable satellite communications to Naval forces. The system provides an increase in single service capability from 1.5 Mbps to 8 Mbps, increases the number of coverage areas and retains A/J, LPI protection characteristics. It is compatible with today's Navy LDR/MDR terminals and will sustain the MILSATCOM architecture by providing connectivity across the spectrum of mission areas, to include land, air and naval warfare, special operations, strategic nuclear operations, strategic defense, theater missile defense, and space operations and intelligence. The AEHF system will replications and improve on the capabilities of the Milstar system and will equip the warfighters with the assured, jam resistant, secure communications as described in the ORD for the joint AEHF Satellite Communications System. The AEHF system will provide crosslinks within the constellation as well as between AEHF satellites and Milstar satellites in the backwards compatible mode. Mission requirements specific to Navy operations, including threat levels and scenarios, are contained in the AEHF ORD. NMT Program consists of competitive prototype development, EDM development and environmental qualification, on-orbit testing, platform integration and test, software enhancements and regression testing throughout the life of the program. In addition to the Q-Band protected communications capability, NMT multi-band communications System (DSCS) and WGS. NMT will be a transport layer enabler for FORCEnet.
- (U) The Challenge Athena Program required the following enhancements: (a) Satellite Doppler Buffer Fill Meter, which is a "gauge" on the GUI that indicates the current level of fill of the satellite Doppler buffer. The terminal operator was able to determine if the buffer is close to an overflow/underflow condition. With this indicator, he can then better plan when to re-center it without losing critical communications; (b) Channel Interleave Option for MIL-STD-188-165 Modes, that allowed the channel interleaver to be enabled without the additional bandspreading required for framing and Reed-Solomon FEC that provides handover and EMI protection; (c) Higher Data Rates increased the maximum provided data rate of the MD-1030B(V) 9 Modem to 4.096 Mbps with QPSK (Quadrature Phase Shift Keying) modulation. Higher available data rates in the MD-1030B(V)9 modem allowed the customer to achieve its near term throughput needs without putting up additional carriers; and (d) Shore Handover Error Burst. The MD-1030B(V)9 modem maintained its Bit Count Integrity (BCI) both at ship and shore based installations through shipboard antenna handover events. In addition, the MD-1030B(V)9 achieved virtual error free performance for ship's received data.
- (U) The INMARSAT program has a requirement for a follow-on terminal to increase throughput and compliment assured IP. FY06 RDT&E funds are required for representative production units design, development, fielding and testing.

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	IAME
RDT&E, N / BA-7	0303109N Satellite Communications (Space)	0728 EHF SATCOM Termin	als

(U) B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
AN/WSC-6 WGS Terminal Upgrades	0.104	0.650	0.000	0.000
RDT&E Articles Quantity				

- (U) FY04: Completed Developmental testing of advanced modern system and terminal upgrades.
- (U) FY05: Operational testing of advanced modem system and terminal upgrades.

	FY 04	FY 05	FY 06	FY 07
NMT Development, First & Second Phases	55.389	48.259	46.634	84.425
RDT&E Articles Quantity	8			20

- (U) First and second phases of NMT development for System Design and Development (SDD) for ship, shore and submarine platforms.
- (U) **FY04**: Completed development of satellite simulators. Awarded contract for development of NMT prototype terminal hardware and software. Hardware includes operator interface, Terminal Control Processor, Modem Control Processor, Antenna Pointing Unit and associated firmware. Software includes access control protocols, terminal Built In Testing (BIT)/BITE Adaptation Data Recorder, and Low Probability of Interception (LPI) power control software. Continued development of high-level test plan. Began design and development of 8 NMT prototypes (four ship, two sub, two shore). Incorporate Software Communications Architecture (SCA).
- (U) FY05: Continue NMT prototype terminal hardware and software development and development of high-level test plan. Continue hardware and software design and development of 8 SCA compliant NMT prototypes started in FY04.
- (U) FY06: Continue NMT SDD prototype terminal hardware and software development and development of high-level test plan. Continue hardware and software design and development of 8 SCA compliant NMT prototypes started in FY04.
- (U) **FY07**: Complete terminal hardware and software development for 8 SCA compliant NMT prototypes began in FY04. Test over the air NMT prototypes and conduct NMT vendor down-select. Commence design and development of 20 Q/Ka capable EDMs and added X-band for submarine platforms. EDM test sets are required at the following sites: one set at contractor facilities for testing, one set shared between east/west coast government facilities for program and joint interoperability testing, and one set for operational assessment on platforms. Each set is composed of two ship, one sub, and one shore terminal configurations. In addition eight EDMs are planned as 1st of class platform installations for unique platform environmental testing and production phase risk reduction.

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	AME
RDT&E, N / BA-7	0303109N Satellite Communications (Space)	0728 EHF SATCOM Termin	als

(U) B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
EHF Polar	1.179	0.750	0.500	0.000
RDT&E Articles Quantity				

- (U) EHF POLAR / UFO-11 software development and systems engineering.
- (U) FY04 FY06: Continue development of Tracking, Telemetry and Control subsystems and end-to-end system testing for Polar 2/3 system.

	FY 04	FY 05	FY 06	FY 07
INMARSAT Follow On Terminals	0.000	0.000	3.700	0.000
RDT&E Articles Quantity				

(U) FY06: Develop an Follow-on INMARSAT terminal to increase throughput and compliment assured IP. Funds are required for representative production units design, development, fielding and testing.

EXHIBIT R-2a, RDT&E Project Justification					DATE:
•					February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER A	ND NAME	F	PROJECT NUMBER A	ND NAME
RDT&E, N / BA-7	0303109N Satellite Communication	ns (Space)	(0728 EHF SATCOM Te	erminals
(U) C. PROGRAM CHANGE SUMMARY:					
(U) Funding:	FY 2004	FY 2005	FY 2006	FY 2007	
FY05 President's Budget	57.774	50.345	79.663	67.244	
FY06 PB Submit	56.672	49.659	50.834	84.425	
Total Adjustments	-1.102	-0.686	-28.829	17.181	
Summary of Adjustments					
Congressional Adjustments					
Congressional Recissions		-0.676			
Reprogrammings	-0.268	-0.010			
Programmatic Adjustments			-29.416	16.183	
Economic Assumptions			0.745	1.104	
Pricing Adjustments			-0.158	-0.106	
SBIR/STTR Transfers	-0.834				
Subtotal	-1.102	-0.686	-28.829	17.181	

(U) Schedule:

SDD contract awarded 10/03. Required Acquisition Strategy Report (ASR) was approved June 2002, and the ASR Update was approved July 2003.

Schedule Current Estimate reflects the incorporation of Software Communications Architecture (SCA) into the program baseline per NMT Acquisition Decision Memorandum. Additional SCA scope and cost incorporated into the program baseline within FY04-FY07 funding profile necessitated a 7-month program slip.

Programmatic changes in the AEHF satellite program resulted in a 6-month extension of the NMT prototype phase.

(U) Technical:

Not applicable.

EXHIBIT R-2a, RDT&E Proje	ect Justification		DATE:
			February 2005
APPROPRIATION/BUDGET ACT	IVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-7 0303109N Satellite Communication		0303109N Satellite Communications (Space)	0728 EHF SATCOM Terminals

(U) D. OTHER PROGRAM FUNDING SUMMARY:

									10	iolai
Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Cost
321500 - OPN Ship and Shore*	74.798	38.745	21.106	-	-	19.158	91.159	158.922	Continuing	Continuing

*Includes NESP terminal installation costs.

- (U) Related RDT&E:
 - (U) PE 0303603F, Milstar
 - (U) PE 0303601F, Air Force Satellite Communications

(U) E. ACQUISITION STRATEGY:

(U) Navy Multiband Terminal (NMT) Concept Exploration contracts were awarded in FY01. Two System Development and Demonstration (SDD) contracts were competively awarded in FY 2004 for the development and demonstration of four prototype terminals per vendor (eight total). In FY 2007, a downselect to one vendor will occur for the development, demonstration and procurement of twenty Engineering Developmental Models (EDMs) which will incorporate integrated multi-band capabilities for Q/Ka band, Submarine X-Band, and Ship X/Ka band communication requirements.

(U) F. MAJOR PERFORMERS:

Harris Corp., Melbourne, FL - NMT SDD Vendor; contract awarded Oct. 03 Raytheon, Marlborough, MA - NMT SDD Vendor; contract awarded Oct. 03 Naval Undersea Warfare Center (NUWC), Newport, RI - NMT Technical Director; annual WX document

(U) G. METRICS:

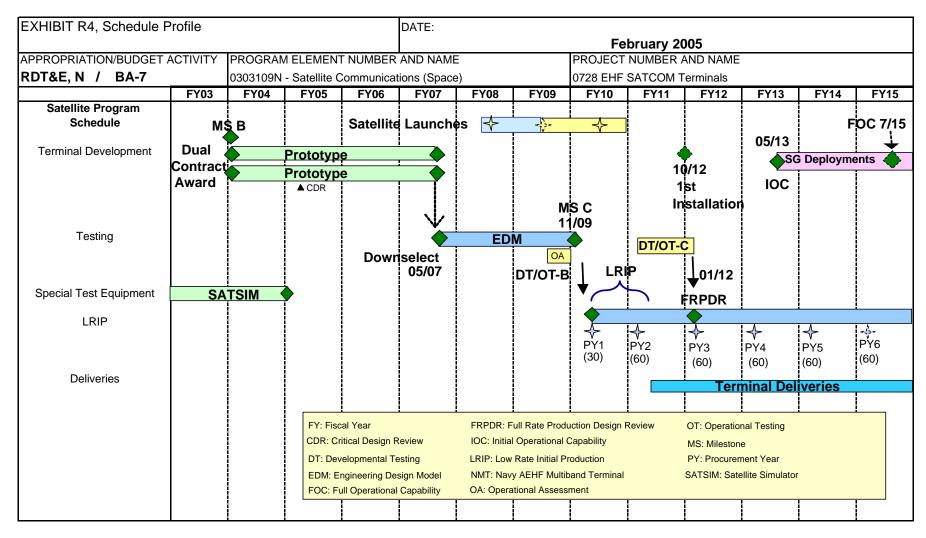
Earned Value Management (EVM) is used for metrics reporting and risk management.

R-1 SHOPPING LIST - Item No. 193

Total

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CLASSIFICATION:													
									DATE:				
Exhibit R-3 Cost Analysis (pag										Fe	bruary 2005		
APPROPRIATION/BUDGET ACTIVI	.TY		PROGRAM EL	EMENT			PROJECT NU	IMBER AND N	IAME				
RDT&E, N / BA-7			0303109N Sa		nications (Space		0728 EHF SA		als				
Cost Categories	Contract	Performing		Total		FY 05		FY 06		FY 07			Target
	Method & Type	Activity &		PY s	FY 05 Cost	Award Date	FY 06 Cost	Award Date	FY 07	Award Date	Cost to	Total	Value of
Hardware Davider west	CPAF	Location		Cost		1	40.101		Cost 77.225		Complete	Cost Continuing	Contract
Hardware Development		Various		58.436	1		40.101	11/05	11.225	10/06	Continuing	*	
Hardware Development	C/FFP	Harris (Melbo		5.901			2.000	10/05	2.212	40/00	Continuing		1
Hardware Development	WR	SSC SD (San	Diego, CA)	1.077	0.278	10/04	0.202		0.210	10/06	Continuing	Continuing	
Hardware Development	TBD	TBD		<u> </u>	<u> </u>	<u> </u>	3.224	11/05	1				
Ancillary Hardware Development	CPAF	` `	arlborough, MA)	57.790		_	1		1				
Software Development	WR	NUWC (Newpo	rt, RI)	8.017			0.500			<u> </u>	Continuing	·	+
Systems Engineering	WR	SSC SD (San I	Diego, CA)	14.169	0.237	10/04	0.244	10/05	0.251	10/06	Continuing	Continuing	
Systems Engineering	WR	NUWC (Newp	ort, RI)	4.974	1.791	10/04	1.686	10/05	1.794	10/06	Continuing	Continuing	
Systems Engineering	Various	Various		9.852	0.499	10/04	0.723	11/05	0.743	10/06	Continuing	Continuing	
GFE	Various	Various		8.158	1.500	10/04					Continuing	Continuing	
Subtotal Product Development				168.374	47.282	<u> </u>	46.680		80.223		Continuing	Continuing	
Remarks:												_	
Development Support	WR	SSC SD (San I	Diego, CA)	7.504	0.247	10/04	0.254	10/05	0.261	10/06	Continuing	Continuing	
Integrated Logistics Support	T&M	Various		0.586	0.252	10/04	0.363	10/05	0.373	10/06	Continuing	Continuing	
Studies & Analysis	WR	Various		5.536	j i								
Subtotal Support		1		13.626	0.499	,	0.617		0.634		Continuing	Continuing	
Remarks:													

CLASSIFICATION:													
									DATE:				
Exhibit R-3 Cost Analysis (pa	ige 2)									Fe	bruary 2005		
APPROPRIATION/BUDGET ACTIV	VITY		PROGRAM EI	LEMENT			PROJECT NU	JMBER AND	NAME		<u></u>		
RDT&E, N / BA-7			0303109N S	atellite Commu	unications (Spa	ce)	0728 EHF SA	TCOM Termin	nals				
Cost Categories	Contract	Performing		Total	1	FY 05		FY 06		FY 07			Target
	Method	Activity &		PY s	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Developmental Test & Evaluation	WR	Various		10.130	0.008	10/04	1.319	10/05	1.294	10/06	Continuing	Continuing	J
Operational Test & Evaluation	WR	Various		0.556	3						Continuing	Continuing	ı
												†	+
Subtotal T&E				10.686	0.008	,	1.319		1.294		Continuing	Continuing	,——
Subiotal T&L				10.000	0.000	<u>'I</u>	1.515	'	1.234	1	Continuing	Continuing	4
Contractor Engineering Support	CPAF	Various		2.480	0.741	10/04	0.779	10/05	0.796	10/06	Continuing	Continuing	J
Program Management Support	Various	Various		2.04	7 1.029	10/04	1.318	10/05	1.355	10/06	Continuing	Continuing	J
Travel		Gov't Travel		0.10	0.100	10/04	0.120	10/05	0.123	10/06			
Subtotal Management				4.632	1.870)	2.218	1	2.274		Continuing	Continuing	J
Remarks:													
Total Cost				197.518	49.659)	50.834		84.425		Continuing	Continuing	J
Remarks:													



Note:

Reflects development of 20 EDMs Production Quantity includes SCN platforms

Exhibit R-4a, Schedule Detail					DATE:			
						Februa	ary 2005	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EL	EMENT			PROJECT NUI	MBER AND NAM	ME	
RDT&BA-7	0303109N - Sa	tellite Communic	cations (Space)		0728 EHF SAT	COM Terminals	;	
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Milestone B (MSB)	1Q							
Dual Contract Award	1Q							
Prototype Complete				3Q				
Engineering Development Model (EDM) Begins (Quantity = 20)				3Q				
Developmental Testing (MS B)						4Q		
Operational Testing (Platform Operational Assessment) (MS B)						4Q		
Milestone C (MS C)							1Q	
Start Low-Rate Initial Production I (LRIP I)							2Q	
Start Low-Rate Initial Production II								1Q
Low-Rate Initial Production I Delivery								2Q
Developmental Testing (MS C)								2Q
Operational Testing (MS C) (NOTE 1)								
Initial Operational Capability (IOC) (NOTE 2)								
Full Operational Capability (FOC) (NOTE 3)								
								
								
								
								1

NOTE 1: Operations Testing (MS C) is scheduled for 2Q FY12.

NOTE 2: Initial Operational Capability (IOC) is schedule for 3Q FY13.

NOTE 3: Full Operational Capability is scheduled for 3Q FY15.

CLASSIFICATION:									
EXHIBIT R-2a, RDT&E Project Justification								DATE:	1
								February 2005	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEME	ENT NUMBER AND	NAME		PROJECT NUMBE	R AND NAME		
RDT&E, N / BA-7	0303109N Satellite	Communications (S	Space)			0731 Fleet Satellite	Comm		
COST (\$ in Millions)	•	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		0.524	0.605	0.631	0.699	1.773	1.794	1.819	1.854
RDT&E Articles Qty		2	2	2					

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Sensitive Compartmented Information Networks (SCI Networks), is an evolutionary acquisition program designed to provide enabling technology necessary for Intelligence, Cryptologic, and Information Warfare Systems with protected and reliable delivery of SI/SCI data through a secure, controllable network interface with the ADNS architecture. Specifically, SCI Networks shall ensure the availability of networks in defiance of hostile Information Warfare (IW). Technical, physical, and procedural security will be used to control access, protect Department of Navy (DoN) information technology resources, and ensure continuous operation of the system within an accredited security posture. This network connectivity will greatly expand the capability of cryptologic and intelligence personnel to fully interact with shore based nodes to provide expanding support to their commanders, including situational awareness, indications and warning (I&W), enemy force intentions, intelligence preparation for the battlefield, and battle damage assessment (BDA). The SCI Networks will provide real time indications and warning support to joint and component commanders through reliable high-speed transfer of sensor data and intelligence information. Enhanced interoperability with other services, agencies, and allies will permit a level of integration of SI operations not achievable with current systems.

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	IAME
RDT&E, N / BA-7	0303109N Satellite Communications (Space)	0731 Fleet Satellite Comm	

(U) B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
SCI Networks	0.524	0.605	0.631	0.699
RDT&E Articles Quantity	2	2	2	

FY04: Continued integration and implementation of SCI Networks and associated Special Intelligence Communication capabilities. Development and integration of COMPOSE 3.0, SCI Networks Surface Suite (AN/USQ-148D(V)2), and IPv6 capabilities. Complete lab testing of submarine and BCA variants

FY05: Continue integration and implementation of SCI Networks and associated Special Intelligence Communications. Conduct developmental and operational testing of software and hardware for sub, surface, and shore. Development, integration, and testing of AN/USQ-148E(V)2 surface suites and COMPOSE 3.X. software. Continue development and integration of IPv6 capabilities.

FY06: Continue integration and implementation of SCI Networks and associated Special Intelligence Communications. DT AN/USQ-148D(V)2 and development and integration of COMPOSE 3.X software. IPv6 integration and laboratory testing.

FY07: Continue integration and implementation of SCI Networks and associated Special Intelligence Communications. DT of AN/USQ-148(V)4. OT of AN/USQ-148D(V)2 and AN/USQ-148(V)4. IPv6 integration and shipboard testing efforts. Integration and testing of VoIP and Video IP.

CLASSIFICATION:

XHIBIT R-2a, RDT&E Project Justification					DATE:	
					February 2005	
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER A	AND NAME	F	PROJECT NUMBER A		
RDT&E, N / BA-7	0303109N Satellite Communication	ns (Space)	C	731 Fleet Satellite Co	mm	
(U) C. PROGRAM CHANGE SUMMARY:						
(U) Funding:	FY 2004	FY 2005	FY 2006	FY 2007		
FY 05 President's Budget:	0.578	0.644	1.493	1.775		
FY 06 President's Budget:	0.524	0.605	0.631	0.699		
Total Adjustments	-0.054	-0.039	-0.862	-1.076		
Summary of Adjustments						
Congressional Adjustments						
Congressional Recissions		-0.039				
Reprogrammings	-0.038					
Programmatic Adjustments			-0.843	-1.055		
Economic Assumptions			0.002	0.003		
Pricing Adjustments			-0.021	-0.024		
SBIR/STTR Transfers	-0.016					
Subtotal	-0.054	-0.039	-0.862	-1.076		

(U) Schedule:

Technical issues with the interfacing system (ADNS), as well as submarine availabilities have delayed the DT/OT events (DT IID/OT IIB) for the SCI Networks submarine variant. Additional software certification security accreditation and testing to accommodate hosted systems will be accomplished in FY04. DT/OT is now scheduled for FY05 Q2 and Q4. Submarine/BCA Lab DT completed in FY04 Q2. Relabeled all Test & Evaluation milestones (DT IID, OT IIB, DT IIIB, DT IIIB, DT IIIC & OT IIIA) to provide more schedule clarity and break out testing of 148D and 148E SCI Networks variants. 148E development accelerated to support an interfacing system that requires 148E services. Identified 4.X and 5.X software delivery and Test & Evaluation milestones in the out years.

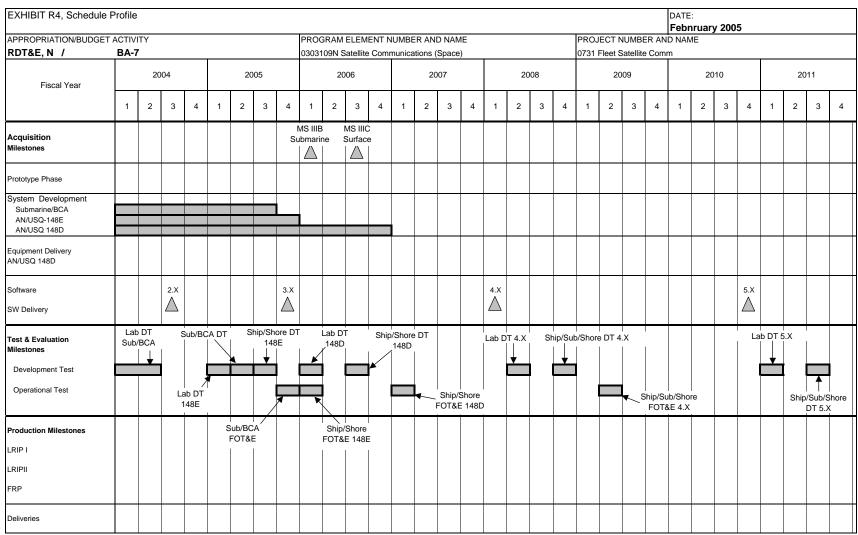
(U) Technical:

Not applicable.

EXHIBIT R-2a, RDT&E P	roject Justification								DATE:			
										February 20	005	
APPROPRIATION/BUDGET A			PROGRAM EL	EMENT NUME	BER AND NAM	E	PROJECT NUM	IBER AND NA	ME			
RDT&E, N /	BA-7		0303109N Sate	ellite Communic	cations (Space)	0731 Fleet Sate	ellite Comm				
(U) D. OTHER PROGR	AM FUNDING SUMMARY	':								_		Total
Line Item No. & Name	.	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete		Total <u>Cost</u>
3050 COMM AUTO		6.638	0.814	4.468	4.556	4.708		4.975		88 Cont	Cont	<u>0031</u>
	ATEGY: * ts are comprised of Comm Generation versions are b						ntegrated into SC	CI Networks de:	signs assoc	ciated with		
(U) F. Major Performers:												
SPAWAR Systems	Center, San Diego (SSC S	SD) provides re	search and dev	elopment for n	ext generation	SCI Network	s.					
* Not required for Bud	get Activities 1,2,3, and 6	6										

1													
CLASSIFICATION:													
									DATE:				
Exhibit R-3 Cost Analysis (pag	ge 1)								F	ebruary 20)05		
APPROPRIATION/BUDGET ACTIV	/ITY		PROGRAM EI	LEMENT			PROJECT NU	JMBER AND	NAME	-			
RDT&E, N / BA-7			0303109N Sat		ications (Space		0731 Fleet Sa						
Cost Categories		Performing Activity & Location		Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	Var	Var		21.359			0.631		0.699		Continuing		
Ancillary Hardware Development					1				0.000	,		0.000	1
Systems Engineering												0.000	
Licenses												0.000	
Tooling					1							0.000	1
GFE					1							0.000	
Award Fees												0.000	
Subtotal Product Development				21.359	0.605		0.631		0.699		0.000		
Development Support												0.000	0.000
Software Development												0.000	0.000
Training Development												0.000	0.000
Integrated Logistics Support												0.000	0.000
Configuration Management												0.000	0.000
Technical Data												0.000	0.000
GFE												0.000	0.000
Subtotal Support				0.000	0.000		0.000)	0.000		0.000	0.000	0.000
Remarks:													

CLASSIFICATION:													
									T= . ==				
Exhibit D 2 Cost Analysis (neg	~ O\								DATE:	-h	ne.		
Exhibit R-3 Cost Analysis (pag	e 2)		PROGRAM E	I EMENT			DDO IECT NII	JMBER AND N		ebruary 200	ບວ		
RDT&E, N / BA-7	11				ications (Space	s)	0731 Fleet Sa		AIVIE				
Cost Categories	Contract	Performing	0303109N 3a	Total	Cations (Space	FY 05	0/31 Fleet 3a	FY 06		FY 07			Target
Cost Gategories		Activity &		PY s	FY 05	Award	FY 06	Award			Cost to	Total	Value of
		Location		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Developmental Test & Evaluation												0.000	0.000
Operational Test & Evaluation												0.000	0.000
Live Fire Test & Evaluation												0.000	0.000
Test Assets												0.000	0.000
Tooling												0.000	0.000
GFE												0.000	0.000
Subtotal T&E				0.000	0.000		0.000		0.000		0.000		0.000
Contractor Engineering Support												0.000	0.000
Government Engineering Support												0.000	0.000
Program Management Support												0.000	0.000
Travel												0.000	0.000
Subtotal Management				0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:													
Total Cost				21.359	0.605		0.631		0.699		0.000	23.294	0.000
Remarks:													



CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE: February 2	005	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	JMBER AND N	AME	
RDT&BA-7	0303109N Sa	tellite Commun	ications (Space	e)	0731 Fleet Sa	tellite Comm		
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
MS IIIB Submarine			1Q					
MS IIIC Surface/Sub			3Q					
System Develeopment (Submarine/BCA)	1Q-4Q	1Q-3Q						
System Develeopment (AN/USQ-148E)	1Q-4Q	1Q-4Q						
System Develeopment (AN/USQ-148D)	1Q-4Q	1Q-4Q	1Q-4Q					
Software Delivery 2.X	3Q							
Software Delivery 3.X		4Q						
Software Delivery 4.X					1Q			
Software Delivery 5.X							4Q	
Development Test - Lab DT Sub/BCA Variant	2Q							
Development Test - Lab DT 148E		1Q						
Development Test - Sub/BCA DT		2Q						
Development Test - Ship/Shore DT 148E		3Q						
Development Test - Lab DT 148D			1Q					
Development Test - Ship/Shore DT 148D			3Q					
Development Test - Lab DT 4.X					2Q			
Development Test - Ship/Sub/Shore DT 4.X					4Q			
Development Test - Lab DT 5.X								1Q
Development Test - Ship/Sub/Shore DT 5.X								3Q
Operational Test - Sub/BCA FOT&E		4Q						
Operational Test - Sub/BCA FOT&EShip/Shore FOT&	E 148E		1Q					
Operational Test - Sub/BCA FOT&EShip/Shore FOT&	E 148D			1Q				
Operational Test - Ship/Sub/Shore FOT&E 4.X						2Q		
				-	-			
				+	+	1		

R-1 SHOPPING LIST - Item No. 193

CLASSIFICATION:									
EXHIBIT R-2a, RDT&E Project Justification								DATE:	
•									February 2005
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEME	NT NUMBER AND	NAME		PROJECT NUMBE	R AND NAME	•	-
RDT&E, N / BA-7	0303109N Satellite	Communications (S	Space)			2472 Mobile User (Objective System		
COST (\$ in Millions)		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		\$84.433	\$389.408	\$469.999	\$688.307	\$631.970	\$486.081	\$220.039	\$53.623
RDT&E Articles Qty					1	1			

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

- U) The Mobile User Objective System (MUOS) program provides for the development of the next generation DoD advanced narrowband communications satellite constellation. The current UHF Follow-On (UFO) constellation is expected to degrade below acceptable availability parameters in 2010. The MUOS program builds on state-of-the-art technologies and best commercial practices to develop a totally responsive joint warfighter system. In addition, new user requirements have been identified and advanced concepts developed to incorporate new programs and technologies which address the significant growth in requirements for military narrowband communications, as required per the approved joint interest MUOS Operational Requirements Document (ORD).
- (U) This RDT&E effort supports a USecAF approved IOC in 2010 and FOC in 2014. Two Component Advanced Development (CAD) contracts were awarded in Q4 FY 2002. The CAD contracts continued into FY 2004. A single Risk Reduction & Design Development (RRDD) contract was awarded in September 2004 after Key Decision Point (KDP) B, also in September 2004. With KDP-B, MUOS was officially designated a Department of Defense Space Major Defense Acquisition Program. Also included is software development for UFO TT&C Terminal and advanced planning and engineering for the terminals in FY2007.

CLASSIFICATION:

•	on			DATE:	February 2005				
PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUM	BER AND NAME	PROJECT NUMBER AND N	IAME	1 Columny 2000				
DT&E, N / BA 7	0303109N Satellite Commun	ications (Space)	2472 Mobile User Objective	2472 Mobile User Objective System					
B. Accomplishments/Planned Program									
	FY 04	FY 05	FY 06	FY 07					
Accomplishments/Effort/Subtotal Cost	84.433	389.408	469.999	688.307					
RDT&E Articles Quantity	000	000.100	100.000	1					
RRDD contract.	, , ,		system engineering tasks. Also	includes forward funding	g of 95.3M for FY06				
RRDD contract. (U) FY06: Continue funding for MUOS RRDD (U) FY07: Continue funding for MUOS RRDD	Design Development (RRDD) control contract and associated system en contract and start manufacturing N	gineering tasks.							
RRDD contract. (U) FY06: Continue funding for MUOS RRDD	Design Development (RRDD) control contract and associated system en contract and start manufacturing Numbering for the terminals.	igineering tasks. IUOS 1 including assoc	ated system engineering tasks.	Also includes software d					
RRDD contract. (U) FY06: Continue funding for MUOS RRDD (U) FY07: Continue funding for MUOS RRDD TT&C Terminal and advanced planning and eng	Design Development (RRDD) control contract and associated system end contract and start manufacturing Manuering for the terminals.	igineering tasks. IUOS 1 including assoc FY 05	ated system engineering tasks. /	Also includes software d					
RRDD contract. (U) FY06: Continue funding for MUOS RRDD (U) FY07: Continue funding for MUOS RRDD	Design Development (RRDD) control contract and associated system en contract and start manufacturing Numbering for the terminals.	igineering tasks. IUOS 1 including assoc	ated system engineering tasks.	Also includes software d					
Accomplishments/Effort/Subtotal Cost	Design Development (RRDD) control contract and associated system end contract and start manufacturing Manuering for the terminals.	igineering tasks. IUOS 1 including assoc FY 05	ated system engineering tasks. /	Also includes software d					
RRDD contract. (U) FY06: Continue funding for MUOS RRDD (U) FY07: Continue funding for MUOS RRDD TT&C Terminal and advanced planning and eng Accomplishments/Effort/Subtotal Cost	Design Development (RRDD) control contract and associated system end contract and start manufacturing Manuering for the terminals.	igineering tasks. IUOS 1 including assoc FY 05	ated system engineering tasks. /	Also includes software d					
RRDD contract. (U) FY06: Continue funding for MUOS RRDD (U) FY07: Continue funding for MUOS RRDD TT&C Terminal and advanced planning and eng Accomplishments/Effort/Subtotal Cost	Design Development (RRDD) control contract and associated system en contract and start manufacturing N gineering for the terminals. FY 04 0.000	rgineering tasks. IUOS 1 including associ	ated system engineering tasks. FY 06 0.000	FY 07 0.000					

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification					DATE:	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER A	ND NAME	IР	ROJECT NUMBER A	ND NAME	February 2005
RDT&E, N / BA 7	0303109N Satellite Communication			472 Mobile User Obje		
(U) C. PROGRAM CHANGE SUMMARY:	•				-	
(U) Funding:	FY 2004	FY 2005	FY 2006	FY 2007		
FY05 President Budget	195.019	503.651	621.268	661.558		
FY06 President Budget	84.433 -110.586	389.408 -114.243	469.999	688.307 26.749		
Total Adjustments	-110.586	-114.243	-151.269	26.749		
Summary of Adjustments						
Congressional Adjustments		-110.000				
Congressional Recissions	-0.181	-4.172				
Reprogrammings	-104.896	-0.071				
Programmatic Adjustments			-156.379	18.267		
Economic Assumptions			5.105	8.454		
Pricing Adjustments			0.005	0.028		
SBIR/STTR Transfers Subtotal	-5.509 -110.586	-114.243	-151.269	26.749		
Cubicidi	110.000	111.210	101.200	20.7 10		
(U) Schedule:						
(U) Technical:						
N/A						
IV/A						
	R-1 SHOPPIN	IO LIOT I	N- 400			

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NA	AME
RDT&E, N / BA-7	0303109N Satellite Communications (Space)	2472 Mobile User Objective S	System

(U) D. OTHER PROGRAM FUNDING SUMMARY:

									10	l otal
Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Cost
2433 Mobile User Objective System					160.463	532.968	524.237	483.392	896.200	2,597.260

(U) E. ACQUISITION STRATEGY: *

Concept Exploration contracts were awarded in early FY 2000 and completed in late FY 2001. Two Component Advancement Development (CAD) contracts were awarded in Q4 FY 2002. A RRDD contract was awarded in September 2004 for the first two satellites, system engineering and associated ground infrastructure. WPN funds the remaining four satellites and launch services for all six satellites.

Updates to the ground UFO TT&C terminals that support UFO on-orbit operations are included \$13.2M in FY08 and \$2M FY09.

(U) F. MAJOR PERFORMERS:

Lockheed Martin

(U) G. METRICS:

Earned Value Management (EVM) is used for metrics reporting and risk management.

^{*} Not required for Budget Activities 1,2,3, and 6

CLASSIFICATION:												
								DATE:				
Exhibit R-3 Cost Analysis (page	. 1)								ebruary 20	05		
APPROPRIATION/BUDGET ACTIVIT	· 1) V	PROGRAM E	LEMENT			PROJECT NU	IMBED AND I		ebruary 20	05		
RDT&E, N / BA-7	•			ications (Space	2)	2472 Mobile U						
Cost Categories	Contract	Performing	Total	ilcations (opace	FY 05	Z47Z WODIIC C	FY 06	,	FY 07			Target
	Method	Activity &	PY s	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
RRDD AOS Contract	CPAF/FP	LM	48.000	353.080	1Q	433.639	1Q	625.668	1Q	1,196.493	2,656.880	2656.880
CE Contracts & Demos	FFP	Boeing/LM/Ratheon/Spec	21.320)							21.320	21.320
		Spectrum Astro										
CAD Contracts	FFP	LM/Ratheon	105.154	!							105.154	105.154
AoA for MUOS	MIPR	Aerospace	2.782								2.782	2.782
Government Studies	VAR	'	0.711								0.711	
Crypto Procurement	MIPR	NSA	1.520)							1.520	1.520
AOS Contract												
Subtotal Product Development			179.487	353.080		433.639		625.668		1,196.493	2,788.367	2787.656
Subtotal i Toduct Development	l	1	173.407	333.000	1	400.000	1	023.000	l	1,130.430	2,700.307	2707.000
Development Support											0.000	
Software Development for UFO TT&C								10.500	1Q		10.500	
Integrated Logistics Support			0.500)							0.500	
Ground Site Engineering	MIPR	TBD		3.500	1Q	3.500	1Q	3.500	1Q	10.500		
Leased Lines				0.000						23.500		
Studies & Analyses (EELV)				0.400	1Q	0.800	1Q	16.600		2.000		
GFE				0.100							0.000	
Award Fees											0.000	
Subtotal Support			0.500	3.900		4.300		30.600		36.000	75.300	
Subtotal Support			0.300	3.300	1	4.500	1	30.000	ı	30.000	75.500	l
Remarks:												
Tromanie.												

CLASSIFICATION:													
									DATE:				
Exhibit R-3 Cost Analysis (page										ebruary 20	05		
APPROPRIATION/BUDGET ACTIV	TTY		PROGRAM EI				PROJECT NU						
RDT&E, N / BA-7			0303109N Sat		ications (Space	,	2472 Mobile U		System				
Cost Categories		Performing		Total	E) / 0E	FY 05	E)/ 00	FY 06	E) (07	FY 07	0	T. ()	Target
	Method & Type	Activity & Location		PY s Cost	FY 05 Cost	Award Date	FY 06 Cost	Award Date	FY 07 Cost	Award Date	Cost to Complete	Total Cost	Value of Contract
Developmental Test & Evaluation	MIPR	Location		0.182			0.914		0.824	1	3.688		
Operational Test & Evaluation	MIPR			0.102	0.588		0.646		0.715	1	4.019		
Live Fire Test & Evaluation	IVIII IX				0.300	100	0.040	i iQ	0.713	10	4.013	0.000	1
Test Assets												0.000	
Tooling												0.000	
GFE												0.000	
Subtotal T&E				0.182	1.428		1.560		1.539		7.707		
Contractor Engineering Support	PMTO/MIF	VAR		32.301	18.000	1Q	18.000	1Q	18.000	1Q	210.000	296.301	
Government Engineering Support	WX/MIPR	VAR		4.436	5.000	1Q	5.000	1Q	5.000	1Q	62.000	81.436	;
Program Management Support	PMTO/MS	VAR		1.750	7.000	1Q	7.000	1Q	7.000	1Q	35.000	57.750	
Travel	WX			0.295	0.500	1Q	0.500)	0.500		10.000	11.795	,
ITU IRIS Filing Fee				0.635	0.500							1.135	,
Other Support													
Subtotal Management				39.417	31.000		30.500)	30.500		317.000	448.417	,
Remarks:													
Total Cost				219.586	389.408	i	469.999)	688.307		1,557.200	3,324.500	
Remarks:													

CDR

CLASSIFICATION:

EXHIBIT R4, Schedule	Profile)																							DATE	:	Fe	ebrua	ry 20	05		
APPROPRIATION/BUDGET RDT&E, N /	ACTIV BA-7								PROG 03031					R AND											D NAM							
Fiscal Year			004			20	005			200				20				20	008			20				20	10			20	11	
	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	1	2	3	4
Acquisition Milestones				KDP-	-В							KDP-0	_			Build	Appro	oval		Follo	w-on E	Buy De	ecisio	n 	MRR	ioc					DDR	
System Development	SDR	(CAD	100		No.		VI.AS	100	i de la	PDR	N.		CDR	\	E COL	RR	DD /	AOS	18.70	- 197A		No.	416	V 1. (8)	(5/4/3)	e Vice	1916	V 1	51935	5/16	
Launch																										MUO	S 1			MUOS	2	
Ground Systems																									G1	1				G2		
UFO TT&C Software Dev	-												U	FO TT&0	SW D																	<u> </u>
Test & Evaluation Milestones						TEMF									ТЕМР	Updat	e	l ì						DT-II(On-Orb	it)						
Development/Operational													SI	EGMEI	NT / IN	ITERS	EGME	NT										(ON-OI	RBIT		
Test									OA-1																OA-II	OTRE	MOT 8	ķΕ				
							DT/0	от-в								DT-C	C1/C2						OT-	СІ		_						
																									DT-C2	C2 -C2					FOT8	ķΕ
Production Milestones																																
LRIP I																																
LRIPII																																
FRP																																
Deliveries																																

^{*} Not required for Budget Activities 1, 2, 3, and 6

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE: February 20	005	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	EMENT			PROJECT NU	JMBER AND N	AME	
RDT&BA-7	0303109N Sat	ellite Commun	ications (Space	e)	2472 Mobile U	Jser Objective S	System	
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
System Design Review (SDR)	1Q							
Component Advanced Development (CAD)	1Q-4Q							
Key Decision Point B	4Q							
Risk Reduction and Design Development (RRDD)		1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-3Q
DT-B/OT-B		1Q-4Q	1Q-2Q					
Test and Evaluation Master Plan (TEMP)		2Q		4Q				
Operational Assessment (OA-1)			1Q					
Preliminary Design Review (PDR)			3Q		1			
Key Decision Point C				1Q				
DT-C1			3Q-4Q	1Q-4Q	1Q-4Q			
OT-C1						3Q		
Critical Design Review (CDR)				3Q				
Build Approval					1Q			
Acquisition & Operations Support (AOS)				3Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
Follow-On Buy Decision						1Q		
Segment/Intersegment Testing			1Q-4Q	1Q-4Q	1Q-4Q	1Q-2Q		
Ground System (1)							1Q	
DT-C2							1Q	
OT-C2							1Q-2Q	
Developmental Testing (DT-11A) (On Orbit)							1Q	
Mission Readiness Review (MRR)							1Q	
Operational Assessment (OA-11)							1Q	
IOC							2Q	
Launch 1 (M1)							2Q	
On-Orbit Testing							2Q-4Q	1Q-4Q
Operational Test Readiness Review (OTRR) for MOT&E							2Q	
Ground System (2)								2Q
Multi-Service Operational Testing & Evaluation (MOT&E)							3Q	
Deployment Decision Review (DDR)								3Q
Launch 2 (M2)								2Q
Follow-On Test Evaluation (FOT&E)								1Q-4Q
UFO TT&C Terminal Software Development				1Q-4Q	<u> </u>			
	-				+			
	-				+			

CLASSIFICATION:									
EXHIBIT R-2a, RDT&E Project Justification								DATE:	
•								Februrary 2005	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEME	NT NUMBER AND	NAME		PROJECT NUMBE	R AND NAME		
RDT&E, N / BA-7	0303109N Satellit	e Communications ((Space)			9122 Advanced Wi	deband System / Tr	ansformational Com	munications
COST (\$ in Millions)	•	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		\$11.982	\$17.972	\$20.516	\$22.424	\$79.392	\$67.396	\$74.210	\$56.588
RDT&E Articles Qty						4	16		

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

(U) The Navy Transformational Communications Integrated Terminal Satellite Communications (SATCOM) program provides for the development and production of terminals to provide high capacity reliable, low probability of intercept (LPI), Anti-Jam (AJ), communications capability to the fleet. Terminals will support multiple data streams over Q-band, Ka-band, and X-band. The terminals will also support mesh networking without the need for gateway terminals. Development will focus on a LAN to Antenna capability, including quality of service required for Navy unique missions. AWS/TC Program draft acquisition strategy consists of terminal suite development and environmental qualification, on-orbit testing, platform integration and test, software enhancements and regression testing throughout the life of the program.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			Februrary 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	NAME
RDT&E, N / BA-7	0303109N Satellite Communications (Space)	9122 Advanced Wideband S	System / Transformational Communications

(U) B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
AWS/TC Concept Development	11.982	17.972	20.516	22.424
RDT&E Articles Quantity				

- (U) **FY04**: Continued concept exploration systems engineering and analysis. Began building and testing prototype systems components including the multiband feed assemblies, multiband Radio Frequency (RF) equipment, multiband antenna radome for Radar Cross Section reduction and RF transmissibility. FY 2004 goals are to validate component designs for migration to system level inclusion.
- (U) **FY05**: Migrate component prototypes tested in FY 2004 into a terminal level design. Begin system level engineering process to determine optimal tradeoffs between cost and performance. Build prototypes of terminal level components (multi band antenna system, multi-band IF and RF generation systems).
- (U) **FY06**: Continue system level engineering process to determine optimal tradeoffs between cost and performance. Continue building prototypes of terminal level components (multi band antenna system, multi-band IF and RF generation systems).
- (U) **FY07**: Award System Design & Development (SDD) contract(s); commence development of terminal suite components to include network modifications, routers, information assurance, and the SATCOM terminal, addressing networking, link and physical layers required to communicate with Transformational Communications MILSATCOM (TCM) System. Develop high-level test plan and continue systems engineering activities.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification				DATE: Februrary 2005					
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AI	ND NAME	P	PROJECT NUMBER AND NAME					
RDT&E, N / BA-7	0303109N Satellite Communication	ns (Space)	9122 Advanced Wideband System / Transformational Communications						
(U) C. PROGRAM CHANGE SUMMARY:									
(U) Funding:	FY 2004	FY 2005	FY 2006	FY 2007					
FY05 President's Budget	12.564	18.452	62.702	104.263					
FY06 President's Budget	11.982	17.972	20.516	22.424					
Total Adjustments	-0.582	-0.480	-42.186	-81.839					
Summary of Adjustments									
Congressional Adjustments									
Congressional Recissions		-0.480							
Reprogrammings	-0.239								
Programmatic Adjustments			-42.640	-83.028					
Economic Assumptions			0.567	1.261					
Pricing Adjustments			-0.113	-0.072					
SBIR/STTR Transfers	-0.343								
Subtotal	-0.582	-0.480	-42.186	-81.839					

(U) Schedule:

Acquisition Strategy development and refinement began in FY04. Milestone B is currently projected in FY06. A draft schedule is provided in R4 exhibit. Changes in draft schedule are driven by space segment schedule changes and modifications to draft acquisition strategy. Previously planned prototype and EDM development schedules were combined into a Terminal Suite Development phase.

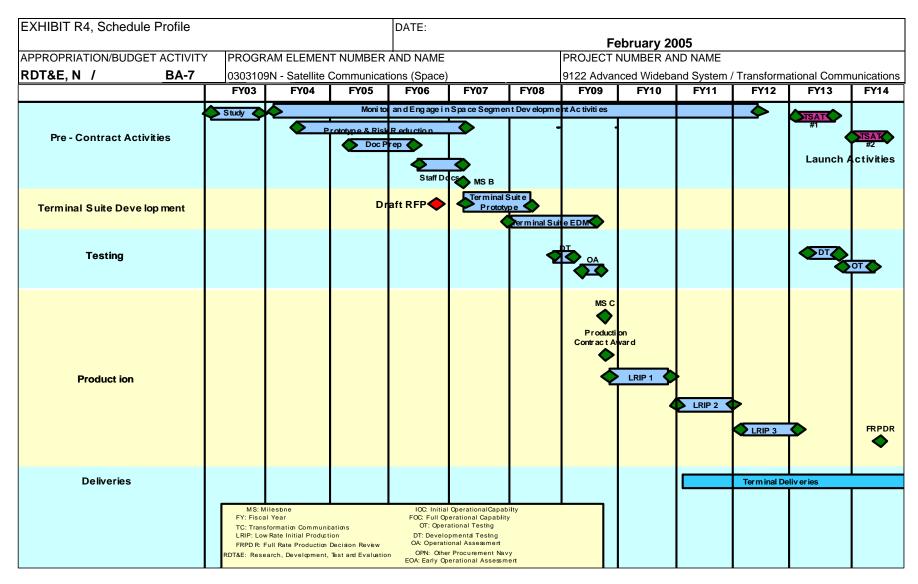
(U) Technical:

Not Applicable.

VITY BA-7 FUNDING SUMMARY: FY 2004 N/A	0303109N S		BER AND NAM nications (Space		PROJECT NU 9122 Advance						
FUNDING SUMMARY: FY 2004		atellite Commu	nications (Spa	ce)	9122 Advance	4 \\\!:4=b==4 C					
FY 2004	FV 0005				9122 Advanced Wideband System / Transformational Communications						
	E)/ 0005							То	Total		
	<u>FY 2005</u> N/A	<u>FY 2006</u> N/A	<u>FY 2007</u> N/A	<u>FY 2008</u> N/A	<u>FY 2009</u> 23.913	<u>FY 2010</u> 91.374	<u>FY 2011</u> 174.774	<u>Complete</u> Continuing	Cost Continuing		
	Transformation	al Communica	tion Study.								
s:											
ment (EVM) is used for metrics repo	rting and risk ma	anagement.									
	s:	architecture is defined by the ongoing Transformation	architecture is defined by the ongoing Transformational Communica	architecture is defined by the ongoing Transformational Communication Study.	architecture is defined by the ongoing Transformational Communication Study.	erchitecture is defined by the ongoing Transformational Communication Study. S:	erchitecture is defined by the ongoing Transformational Communication Study. S:	erchitecture is defined by the ongoing Transformational Communication Study. S:	erchitecture is defined by the ongoing Transformational Communication Study. S:		

CLASSIFICATION:																
									1							
Fullihit D. O. Cast Analysis (see	- 4\								DATE:	2005						
Exhibit R-3 Cost Analysis (pagaPPROPRIATION/BUDGET ACTIVITIES	e 1) TV		PROGRAM E	LEMENT			IDDO IECT NII	Februrary 2005 PROJECT NUMBER AND NAME								
RDT&E, N / BA-7				atellite Commu	nications (Sna	ne)			i∧ivi⊏ System / Transfo	rmational Com	munications					
Cost Categories	Contract	Performing	000010011	Total	Thousand (opur	FY 05	O IZZ / Idvarioc	FY 06	Transie	FY 07			Target			
	Method	Activity &		PY s	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of			
	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract			
Hardware Development	Various	Various		11.774	11.890	11/04	15.241	10/05	16.618	10/06	Continuing	Continuing				
Ancillary Hardware Development																
Systems Engineering	Various	Various		1.359	1.374	10/04	1.758	10/05	1.804	10/06	Continuing	Continuing				
Systems Engineering	WR	NUWC		0.895	0.885	10/04	0.985	10/05	0.993	10/06	Continuing	Continuing				
Subtotal Product Development				14.028	14.149		17.984		19.415		Continuing	Continuing				
Development Support	WR	SSC SD		0.860	1.191	10/04	1.223	10/05	1.324	10/06	Continuing	Continuing				
Integrated Logistics Support								10/05	0.232	10/06	•	0.000				
Studies & Analyses	Various	Various		2.275	1.603	10/04	0.242	10/05	0.272	10/06	Continuing	Continuing				
											•	·				
Subtotal Support				3.135	2.794		1.465		1.828		Continuing	Continuing				
Remarks:																

CLASSIFICATION:															
									DATE:						
Exhibit R-3 Cost Analysis (pa	age 2)								Februrary 2	2005					
APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT							PROJECT NUMBER AND NAME								
RDT&E, N / BA-7	DT&E, N / BA-7 0303109N				Satellite Communications (Space) 9122 Advanced Wideband S				System / Transformational Communications						
Cost Categories	Method	Performing Activity & Location		Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract		
Developmental Test & Evaluation												0.000)		
Operational Test & Evaluation												0.000)		
												0.000)		
												0.000)		
												0.000)		
												0.000)		
Subtotal T&E				0.000	0.000		0.000		0.000		0.000	0.000)		
Contractor Engineering Support												0.000)		
Development Support												0.000)		
Program Management Support	Various	Various		0.446	0.954	10/04	0.970	10/05	1.069	10/06	Continuing	Continuing	9		
Studies & Analyses												0.000)		
Travel				0.047	0.075	10/04	0.097	10/05	0.112	10/06		0.331			
Subtotal Management				0.493	1.029		1.067	r	1.181		Continuing	Continuing	1		
Remarks:															
Total Cost				17.656	17.972		20.516	6	22.424		Continuing	Continuing	J		
Remarks:															



CLASSIFICATION:

Exhibit R-4a, Schedule Detail		DATE:								
·					Februrary 2005					
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EL	EMENT		PROJECT NUMBER AND NAME 9122 Advanced Wideband System / Trans. Communications						
RDT&BA-7	0303109N - Sa	tellite Communic	cations (Space)							
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
Milestone B (MSB)				1Q						
Contract Award(s) (Terminal Suite Development)				1Q						
Prototype Complete					2Q					
Engineering Development Model (EDM) Begins				4Q						
Developmental Testing					4Q					
Operational Assessment						2Q				
Milestone C (MS C)						3Q				
Start Low-Rate Initial Production I (LRIP I)						3Q				
Start Low-Rate Initial Production II (LRIP II)							4Q			

CLASSIFICATION:									
EXHIBIT R-2a, RDT&E Project Justification								DATE:	
•								Februrary 2005	}
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEME	R AND NAME ed Systems Techno	logy for Advanced N	letwork Systems				
RDT&E, N / BA-7	0303109N - Satellit	e Communications	(Space)			(JIST-NET)			
COST (\$ in Millions)		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		0.000	4.844	0.000	0.000	0.000	0.000	0.000	0.000
RDT&E Articles Qty									

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Joint Integrated System Technology for Advanced Networking Systems (JIST-NET) project is an ongoing effort to integrate, develop, and support Military SATCOM multi-spectrum communications planning, management, and control capabilities that interface with many mono-spectral planning and management tools and with advanced planning tools. This project has extremely high visibility within the DoD and United States Congress. The project was realigned to PEO C4I & Space from the United States Air Force starting in FY04 to meet the requirements and funding priorities established for the project.

Conduct JIST-NET software development and engineering analysis operations. Program is currently in the system and software engineering phase. The project will have the necessary system and software engineering to PEO C4I & Space, PMW 170 team define requirements and interface/integrate existing and newly developed SATCOM mission management capabilities into the JIST-NET project. The contractor will update the JIST-NET Software Design for the next JIST-NET prototype using the results of the Software Requirements Analyses. The Software Design Update will build upon the current JIST-NET V1S3 prototype software. The contractor will design, include sign, include all requirement, and test the next JIST-NET prototype. Also, comprehensive studies of the actual usage of satellite resources in a given Area Of Responsibility (AOR) for a specified period of time will be done. Support will include all requirements analysis and development and interface definition support. The project team will provide all the necessary tools, software, documentation, and support necessary to accomplish the required analysis and integration. The long-term goal is to provide dynamic real time or near real time apportionment, allocation and adjudication of satellite resources for the warfighters based on priorities and requirements as assigned by the Operational Commanders.

CLASSIFICATION:

PROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND NAME 0303109N - Satellite Communications (Space) 9421 Joint Integrated Systems Technology for Advanced Network Systems (JIST-NI	EXHIBIT R-2a, RDT&E Project Justification	n			DATE: Februrary 2005	
B. Accomplishments/Planned Program FY 04 FY 05 FY 06 FY 07 Software Development / Systems Engineering 0.000 4.844 0.000 0.000 RDT&E Articles Quantity (U) FY04: N/A (U) FY05: Conduct JIST-NET software development and engineering analysis operations with deliverable outputs for FY05 (U) FY06: N/A (U) FY07: N/A	PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUM	IBER AND NAME	PROJECT NUMBER AND N		
FY 04 FY 05 FY 06 FY 07	DT&E, N / BA-7	0303109N - Satellite Commi	unications (Space)	9421 Joint Integrated System	ms Technology for Advanced	Network Systems (JIST-NE
Software Development / Systems Engineering 0.000 4.844 0.000 0.000 RDT&E Articles Quantity (U) FY04: N/A (U) FY05: Conduct JIST-NET software development and engineering analysis operations with deliverable outputs for FY05 . (U) FY06: N/A (U) FY07: N/A FY 04 FY 05 FY 06 FY 07 Accomplishments/Effort/Subtotal Cost	B. Accomplishments/Planned Program					
Software Development / Systems Engineering 0.000 4.844 0.000 0.000 RDT&E Articles Quantity (U) FY04: N/A (U) FY05: Conduct JIST-NET software development and engineering analysis operations with deliverable outputs for FY05 . (U) FY06: N/A (U) FY07: N/A FY 04 FY 05 FY 06 FY 07 Accomplishments/Effort/Subtotal Cost		FY 04	FY 05	FY 06	FY 07	
(U) FY04: N/A (U) FY05: Conduct JIST-NET software development and engineering analysis operations with deliverable outputs for FY05 . (U) FY06: N/A (U) FY07: N/A FY 04 FY 05 FY 06 FY 07 Accomplishments/Effort/Subtotal Cost	Software Development / Systems Engineering					
(U) FY05: Conduct JIST-NET software development and engineering analysis operations with deliverable outputs for FY05 . (U) FY06: N/A (U) FY07: N/A FY 04 FY 05 FY 06 FY 07 Accomplishments/Effort/Subtotal Cost	RDT&E Articles Quantity					
Accomplishments/Effort/Subtotal Cost	(U) FY05: Conduct JIST-NET software developm. (U) FY06: N/A	nent and engineering analysis op	perations with deliverabl	e outputs for FY05		
		FY 04	FY 05	FY 06	FY 07	
RDT&E Articles Quantity						
	RDT&E Articles Quantity					

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification					DATE: Februrary 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER	AND NAME	1	PROJECT NUM	BER AND NAME
RDT&E, N / BA-7	0303109N - Satellite Communicat	ions (Space)	,	9421 Joint Integ	rated Systems Technology for Advanced Network Systems (JIST-NET)
(U) C. PROGRAM CHANGE SUMMARY:					
(U) Funding: FY05 President's Budget FY06 President's Budget Total Adjustments	FY 2004 0.000 0.000 0.000	FY 2005 0.000 4.844 4.844	FY 2006 0.000 0.000 0.000	FY 2007 0.000 0.000 0.000	
Summary of Adjustments Congressional Increase Congressional Rescissions		4.900 -0.056			
Subtotal	0.000	4.844	0.000	0.000	
(U) Schedule: Not Applicable.					
(U) Technical: Not Applicable.					

CLASSIFICATION:

EXHIBIT R-2a, RDT&E F	Project Justification								DATE: Februrary	2005		
APPROPRIATION/BUDGET /	ACTIVITY		PROGRAM E	LEMENT NUM	IBER AND NAM	ИE	PROJECT NU	JMBER AND N				
RDT&E, N /	BA-7		0303109N S	atellite Commu	unications (Spa	ce)	9421 Joint Into	egrated Syster	ms Technology	for Advanced N	etwork Systems (JIS	T-NET)
(U) D. OTHER PROGI	RAM FUNDING SUMMARY	:								To	Total	
<u>Line Item No. & Nam</u> 0204163N - RDT&E FI	LEET COMMUNICATIONS	FY 2004 6.742	FY 2005 N/A	<u>FY 2006</u> N/A	<u>FY 2007</u> N/A	FY 2008 N/A	<u>FY 2009</u> N/A	<u>FY 2010</u> N/A	FY 2011 N/A	Complete Continuing	Cost Continuing	
(U) E. ACQUISITION ST	RATEGY:											
(U) F. MAJOR PERFORI NUWC (Newport, SSC CH (Charlest (U) G. METRICS:	RI)											

1														
CLASSIFICATION:														
										DATE:				
Exhibit R-3 Cost Analysis (pag	je 1)									Februrary 2	2005			
APPROPRIATION/BUDGET ACTIV	ITY		PROGRAM EL					PROJECT NU						
RDT&E, N / BA-7	lo	Tp. (.	0303109N - Sa		Commu			9421 Joint Inte				Network Systems (JI	ST-NET)	I - .
Cost Categories		Performing Activity &		Total PY s	ļ		FY 05 Award	FY 06	FY 06 Award	FY 07	FY 07 Award	Cost to	Total	Target Value of
	& Type	Location		Cost			Date	Cost	Date	Cost	Date		Cost	Contract
Systems Engineering	Various	Various			0.000							0.000		
Software Development	Various	Various			0.000							0.000		
		1					0.,00							
		1												
Subtotal Product Development		1			0.000	3.627		0.000		0.000	1	0.000	3.627	
·		•					•	•		•	L.			
Remarks:														
Studies & Analyses	Various	Various			0.000	0.847	01/05							
Subtotal Support					0.000	0.847		0.000		0.000		0.000	0.847	
Remarks:														

CLASSIFICATION:												
Exhibit R-3 Cost Analysis (pa	ge 2)							DATE: Februrary	2005			
APPROPRIATION/BUDGET ACTIV	/ITY	PROGRAM E				PROJECT N						
RDT&E, N / BA-7	To		Satellite Commu			9421 Joint Int	egrated Sys	stems Technology	for Advance FY 07	ed Network Systems (JI	ST-NET)	T= .
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05	FY 05 Award Date	FY 06 Cost	Award Date	FY 07 Cost	Award Date		Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	SSC CH (Charleston, SC)	0.000	0.150	11/04					0.000	0.150)
Subtotal T&E			0.000	0.150		0.000	0	0.000)	0.000	0.150	J
Program Management Support	Various	Various	0.000	0.220	01/05					0.000	0.220)
												+
Subtotal Management			0.000	0.220		0.000	D	0.000		0.000	0.220	ו
Remarks:												
Total Cost			0.000	4.844		0.000	o	0.000)	0.000	4.844	4
Remarks:												

CLASSIFICATION:									
EXHIBIT R-2a, RDT&E Project Justification								DATE:	
								February 2005	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEME	NT NUMBER AND	NAME		PROJECT NUMBE	R AND NAME		
RDT&E, N / BA-7	0303109N Satellite	Communiations (Sp	pace)			X9429 SPAWAR C	overt Communication	on and Information T	ransfer
COST (\$ in Millions)	•	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		1.728	0.988	0.000	0.000	0.000	0.000	0.000	0.000
RDT&E Articles Qty									`

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Covert Communications required for operational utilization.

CLASSIFICATION:

	cation			DATE:	February 2005
PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUME	BER AND NAME	PROJECT NUMBER AND N	IAME	rebluary 2005
DT&E, N / BA-7	0303109N Satellite Communic	cations (Space)	X9429 SPAWAR Covert Cor	mmunication and Inform	ation Transfer
B. Accomplishments/Planned Program					
	FY 04	FY 05	FY 06	FY 07	\neg
CCIT	1.728	0.988	0.000	0.000	
RDT&E Articles Quantity					
FY04: SPAWAR Covert Communication at FY05: SPAWAR Covert Communication at					
	FY 04	FY 05	FY 06	FY 07	
	0.000	0.000	0.000	0.000	
RDT&E Articles Quantity					
	FY 04 0.000	FY 05 0.000	FY 06 0.000	FY 07 0.000	

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER	AND NAME	PI	ROJECT NUMBER AND N	NAME
	0303109N Satellite Communicatio				mmunication and Information Transfer
	1030310314 Satellite Communication	ns (opace)	^:	9429 SPAWAR COVER CO	minumeation and information transfer
(U) C. PROGRAM CHANGE SUMMARY:					
(U) Funding:	FY 2004	FY 2005	FY 2006	FY 2007	
FY05 President's Budget	1.728				
FY06 President's Budget	1.728	0.988	0.000	0.000	
Total Adjustments	0.000	0.988	0.000	0.000	
Summary of Adjustments * Include Issue No. & Cong. Language Sec. if applicable	1				
Congressional Add: Covert Communications		1.000			
Congressional Rescission		-0.012			
Subtotal	0.000	0.988	0.000	0.000	
(U) Schedule:					
Not Applicable					
(U) Technical:					
• •					
Not Applicable					

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Pr	oject Justification						DATE:					
A DDD ODDIATION/DUDOFT AG	OT!\ /!T\ /		IDDOODAME	LENGENIE NILINA	IDED AND NA	45	IDDO IDOT NII	MDED AND N	A B 4 E	February 200	05	
APPROPRIATION/BUDGET AC			PROGRAM E				PROJECT NU					
RDT&E, N /	BA-7		0303109N Sa	tellite Commur	nications (Spac	e)	X9429 SPAW	AR Covert Cor	nmunication a	nd Information Tr	ransfer	
(U) D. OTHER PROGRA	AM FUNDING SUMMARY:	:								_	Total	
Line Item No. & Name N/A	!	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To <u>Complete</u>	Total <u>Cost</u>	
N/A												
(U) E. ACQUISITION STR	ATEGY: *											
Not Applicable												
* Not required for Bud	get Activities 1,2,3, and 6	i										
i												

П													1
CLASSIFICATION:													
									DATE:				
Exhibit R-3 Cost Analysis (pag	ie 1)									February 2	2005		
APPROPRIATION/BUDGET ACTIVI	TY		PROGRAM E	LEMENT			PROJECT NU	IMBER AND N					
RDT&E, N / BA-7			0303109N Sa	tellite Commun	ications (Space		X9429 SPAW		mmunication and		Transfer		
Cost Categories		Performing		Total		FY 05		FY 06		FY 07	_		Target
	Method & Type	Activity & Location		PY s Cost	FY 05 Cost	Award Date	FY 06 Cost	Award Date	FY 07 Cost	Award Date	Cost to Complete	Total Cost	Value of Contract
Primary Hardware Development	а туре	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	0.000	
Ancillary Hardware Development												0.000	
Systems Engineering	wx	SSC-CH		0.328	0.164							0.492	
Systems Engineering Systems Engineering	RC	NSMA/AMTI		1.400		1						2.224	
Tooling	KC .	NOWA ANTI		1.400	0.624							0.000	
GFE												0.000	
Award Fees									+			0.000	
Subtotal Product Development	1			1.728	0.988		0.000		0.000		0.000	2.716	
Subtotal Froduct Development				1.720	0.500		0.000		0.000		0.000	2.1 10	1
Development Support												0.000	0.000
Software Development												0.000	0.000
Training Development												0.000	0.000
Integrated Logistics Support												0.000	0.000
Configuration Management												0.000	0.000
Technical Data												0.000	0.000
GFE												0.000	0.000
Subtotal Support				0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:													
Nemarks.													

CLASSIFICATION:																
										DATE:						
Exhibit R-3 Cost An	nalysis (pag	e 2)									Februar	y 2005				
APPROPRIATION/BUD		TY		PROGRAM E						R AND NAME						
RDT&E, N /	BA-7			0303109N S	Satellite Commu	nications (Spa		X9429 SPA	X9429 SPAWAR Covert Communication and Information Transfer							
Cost Categories			Performing Activity & Location		Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract		
Developmental Test & E	Evaluation												0.00	00		
Operational Test & Eva	luation												0.00	00		
													0.00)0		
													0.00)0		
													0.00)0		
													0.00)0		
Subtotal T&E					0.000	0.000		0.00	00	0.00	10	0.00	0.00)0		
Contractor Engineering Su	upport												0.00	00		
Development Support													0.00	00		
Program Management Su	pport												0.00	00		
Studies & Analyses													0.00	00		
Travel													0.00	00		
Subtotal Management					0.000	0.000		0.00	00	0.00	10	0.000	0.00)0		
Remarks:																
Total Cost					1.728	0.988	1	0.00	00	0.00	10	0.000	2.71	6		
Remarks:		1			, 20	2.000		, 0.0.		, 0,000	-1	, 0.00	.,			