CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification								DATE:			
_									Febru	uary 2003	
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOI	MENCLATURE				
RESEARCH DEVELOPMENT TEST & EVALUAT	TON, NAVY	1	BA-7			PE 0305927N	Navy Space	Surveillance S	ystem (NSSS)		
	Prior										Total
COST (\$ in Millions)	Years Cost	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Program
Total PE Cost	1.411	2.906	9.311	0.000	0.000	0.000	0.000	0.000	0.000	0.000	13.628
Project X0125 Navy Space Surveillance System	1.411	1.226	9.311	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.948
Project X9119 SPAWAR Covert Communication				0.000		5.000	0.000		3,000		
and Information Transfer	0.000	1.680	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.680	
											0.000
											0.000
											0.000
											0.000
											0.000
Quantity of RDT&E Articles											0

(U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Naval Space Surveillance System (FENCE) is an integral component of the U.S. Space Command Surveillance Network. This system provides continuous surveillance and unalerted detection of space objects crossing the continental United States. The FENCE is also the only space surveillance system that provides satellite vulnerability and space control data to the fleet. It is a multistatic continuous wave radar fence consisting of three transmitter sites, six receiver sites, and a computation/communication center. The Alternate Space Control role assigned by U.S. Commander in Chief Space (USCINCSPACE) requires that the Naval Network and Space Command (NNSOC), formerly Naval Space Command, maintain functional equivalence with the USCINCSPACE Space Control Center and receive, process and distribute data from 26 surveillance sites.

The Fence program transfers to US Air Force cognizance effective 2004. (X0125)

Congressional Plus up - SPAWAR Covert Communication and Information Transfer (X9119).

(U) JUSTIFICATION FOR BUDGET ACTIVITY:

This program is funded under Operational Sytems Development because it encompasses engineering and manufacturing development for upgrading existing operational systems.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:			
									Febru	uary 2003	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EL	EMENT NUM	BER AND NAM	1E	PROJECT NU	MBER AND N	AME			
RDT&E, N / BA-7	PE 0305927N	Navy Space S	urveillance Sys	stem (NSSS)		X0125 Navy	Space Surveilla	ance System (N	ISSS)		
	Prior										Total
COST (\$ in Millions)	Years Cost	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Program
Project Cost	1.411	1.226	9.311	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.948
RDT&E Articles Qty											0

(U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This project supports the Naval Space Surveillance System (FENCE), an integral component of the J.S. Space Command Space Surveillance Network. This system provides continuous surveillance and unalerted detection of space objects crossing the continental United States. The FENCE is also the only space surveillance system that provides satellite vulnerability and space control data to the fleet. It is a multistatic continuous wave radar fence consisting of three transmitter sites, six receiver sites, and a computation/communication center. The Alternate Space Control role assigned by U.S. Commander in Chief Space (USCINCSPACE) requires that the Naval Network and Space Command (NNSOC), formerly Naval Space Command, maintain functional equivalence with the USCINCSPACE Space Control Center and receive, process and distribute data from 26 surveillance sites. The increase in funding from FY01-FY03 supports this role and the research, design and development of high-powered transmitters and other component parts for the next generation FENCE System.

The Fence program transfers to US Air Force cognizance effective 2004.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	AME
RDT&E, N / BA-7	PE 0305927N Navy Space Surveillance System (NSSS)	X0125 Navy Space Surveill	ance System (NSSS)

(U) B. Accomplishments/Planned Program

	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	1.226	9.311	0.000	0.000
RDT&E Articles Quantity	0	0	0	0

(U) FY 2002 ACCOMPLISHMENTS: (\$1.226)

(\$.191) Conducted environmental, safety and hazmat studies in support of frequency selection and allocation.

(\$1.035) Developed preliminary architecture and design for RF sensor, communications, processing, modeling and simulation.

(U) FY 2003 PLAN: (\$9.311)

(\$.487) Complete development of detailed architecture and design for RF sensors, communications, processing, modeling and simulation.

(\$8.824) Develop RF sensor in order to provide a system demonstration prior to Critical Design Review (CDR).

(U) FY 2004 PLAN: Program transferred to U.S. Air Force.

(U) FY 2005 PLAN: N/A

R-1 SHOPPING LIST - Item No.

209

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification					DATE:	
						February 2003
	ROGRAM ELEMENT NUMBER			PROJECT NUMBER AN	ID NAME	
RDT&E, N / BA-7	E 0305927N Navy Space Surve	eillance System	(NSSS)	X0125 Navy Space Su	rveillance System (NSSS	5)
(U) C. PROGRAM CHANGE SUMMARY:						
(U) Funding:	FY 2002	FY 2003	FY 2004	FY 2005		
President's Budget :	4.237	9.548	2.285	2.278		
Current BES/President's Budget	1.226	9.311	0.000	0.000		
Total Adjustments	-3.011	-0.237	-2.285	-2.278		
Summary of Adjustments						
Congressional Reduction - Program Grov	vth -1.000					
Section 8123: Management Reform Initia						
Program transfer to Air Force			-2.285	-2.278		
Section 313: PL107-206, Rev Econ Assu	imption -0.009					
Link Plumeria	-1.200					
Section 8100: Business Process Reform		-0.038				
Section 8135: Economic Assumptions	-0.009	-0.054				
Section 8109: IT Cost Growth		-0.018				
Section 8029: PL107-248 FY03 FFRDC	Reduction	-0.006				
Miscellaneous Navy Adjustments	-0.764					
Miscellaneous Department Adjustments		-0.121				
Subtotal	-3.011	-0.237	-2.285	-2.278		
40.01.11.						
(U) Schedule:						
NOT APPLICABLE						
(U) Technical:						
NOT APPLICABLE						
	D 4 CHODD	ING LIST - I	on No	200		

CLASSIFICATION:

	- 4 O T 1) ((T) (т.	DD 0 0 D 44 / =:		<u> </u>			4555 4445		Febr	uary 2003	
PROPRIATION/BUDGET				EMENT NUMB			PROJECT NUN					
T&E, N /	BA-7	I	PE 0305927N	Navy Space S	urveillance Sys	tem (NSSS)	X0125 Navy S	pace Surveilla	ince System (N	ISSS)		
(U) D. OTHER PRO	GRAM FUNDING SUMM	ARY:								То	Total	
Line Item No. & Na	ame	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Cost	
(U) OPN Line	e #2901	3.748	2.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	
(U) E. ACQUISITION S	STRATEGY:											
NOT APPLICAB	SLE											

CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (pag	ge 1)										February 200	03	
APPROPRIATION/BUDGET ACTIV	/ITY		PROGRAM E	LEMENT			PROJECT N	JMBER AND N	NAME				
RDT&E, N / BA-7			PE 0305927N		Surveillance Sy		X0125 Navy	Space Survei	llance System (
Cost Categories	Contract	Performing		Total		FY 03		FY 04		FY 05			
	Method	Activity &		PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
Drive and Handware Davidson and	& Type C/CPAF	Location TBD		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Primary Hardware Development	C/CPAF	IBD		1.200	7.500	05/03		+				8.700	
Ancillary Hardware Development					+	+						0.000	
Aircraft Integration					+	+						0.000	
Ship Integration												0.000	
Ship Suitability	+											0.000	1
Systems Engineering				1.426	1.800)						3.226	
Training Development	+				1	1						0.000	
Licenses					1	1						0.000	
Tooling					1	1						0.000	
GFE												0.000	
Award Fees												0.000	
Subtotal Product Development				2.626	9.300)	0.000	ס	0.000)	0.000	11.926	
Development Support												0.000	
Software Development												0.000	
Integrated Logistics Support												0.000	
Configuration Management												0.000	
Technical Data												0.000	
Studies & Analyses												0.000	
GFE												0.000	
Award Fees												0.000	
Subtotal Support				0.000	0.000)	0.000	D	0.000)	0.000	0.000	
Damada									•		•		
Remarks:													
				D 4 01101	DDING LIST	Itama NI -	200						

CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (pa							_				February 200)3	
APPROPRIATION/BUDGET ACTIV	/ITY		PROGRAM E				PROJECT N						
RDT&E, N / BA-7	la	T= .	PE 0305927N	Navy Space	Surveillance Sy		X0125 Navy		eillance System				1
Cost Categories	Contract Method & Type	Performing Activity & Location		Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation												0.000	
Operational Test & Evaluation												0.000)
Live Fire Test & Evaluation												0.000)
Test Assets												0.000)
Tooling												0.000)
GFE												0.000)
Award Fees												0.000)
Subtotal T&E				0.000	0.000		0.00)	0.00	00	0.000	0.000)
	1	1		T	_		_	1		1		_	
Contractor Engineering Support												0.000	
Government Engineering Support												0.000	-
Program Management Support	C/CPAF	TBD			0.011							0.011	1
Travel												0.000	
Transportation												0.000	
SBIR Assessment												0.000	
Subtotal Management				0.000	0.011		0.00	0	0.00	00	0.000	0.011	
Remarks:													
Total Cost				2.626	9.311		0.00	o	0.00	00	0.000	11.937	,
Remarks:													

CLASSIFICATION:

EXHIBIT R4, Schedul	e Profile																								DATE	:						
APPROPRIATION/BUDG	ET ACTIV	ITV							DDOC	DAM	ELEM	ENIT N	UMBE	D VVIC	NIAM	_					PROJ	ECT N	IIMDE	D ANI	D NAM		F	ebrua	ary 20	03		
RDT&E, N /	BA-7												ce Sur				1666/				X0125						tom (N	1666/				
KDIGE, N	DA-1								FE 03	03921	IN INA	vy э ра	Ce Sur	veillari	ce Sys	sterri (r	1333)				A0120) ivav	у Эрас	e Sui	Veillaili	e Sys	tem (iv	1333)				
Fiscal Year		20	002			200	03			20	04			200	05			20	06			200)7			20	80			200)9	
	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	MS B	1							MS C				t Deplo	ру				IOC														
Prototype Phase																																
Radar System Development						PDR	(DR																								
Test & Evaluation Milestones Development Test Operational Test								DT								TE	:CHE\	AL & C	DPEVAL													
Procurements																																
Deliveries																																

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

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:					
,							February 2	003			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	EMENT			PROJECT NU	MBER AND N	AME				
RDT&E, N / BA-7	PE 0305927N	Navy Space S	Surveillance Sys	stem (NSSS)	X0125 Navy	Space Surveilla	ance System (N	ISSS)			
Schedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009			
Milestone B (MSB)	1Q										
Contract Preparation	1Q										
Preliminary Design Review (PDR)		2Q									
System Development		1Q-4Q									
Critical Design Review (CDR)											
Preproduction Readiness Review (PRR)											
Milestone C (MS C)											
Functional Configuration Audit (FCA)											
Technical Evaluation (TECHEVAL)											
Physical Configuration Audit											
Operational Evaluation (OPEVAL)											
IOC											
First Deployment											

R-1 SHOPPING LIST - Item No.

209

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:			
									Febru	uary 2003	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EI	LEMENT NUME	BER AND NAM	1E	PROJECT NU	MBER AND N	AME			
RDT&E, N / BA-7	PE 0305927N	Navy Space S	Surveillance Sy	stem (NSSS)		X9119 SPAWA	AR Covert Con	nmunication an	d Information T	Transfer	
	Prior										Total
COST (\$ in Millions)	Years Cost	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Program
Project Cost	0.000	1.680	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.680
RDT&E Articles Qty											0

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

Congressional Plus up - SPAWAR Covert Communication and Information Transfer (X9119).

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justific	ation			DATE: February 2003	
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NU	MBER AND NAME	PROJECT NUMBER AND		
DT&E, N /BA-7				Communication and Information Tra	ansfer
) B. Accomplishments/Planned Program	,	, ,	1		
	FY 02	FY 03	FY 04	FY 05	
CCIT	1.680				
RDT&E Articles Quantity					
FY02: SPAWAR Covert Communication and	I Information Transfer				
	FY 02	FY 03	FY 04	FY 05	
RDT&E Articles Quantity					
	FY 02	FY 03	FY 04	FY 05	
				11.00	
RDT&E Articles Quantity					

R-1 SHOPPING LIST - Item No.

209

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification						DATE:
						February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEME	NT NUMBER	AND NAME		AND NAME	
RDT&E, N / BA-7	PE 0305927N Navy	/ Space Surve	illance System	(NSSS)	X9119 SPAWAR Cover	ert Communication and Information Transfer
(U) C. PROGRAM CHANGE SUMMARY:						
(U) Funding:		FY 2002	FY 2003	FY 2004	FY 2005	
President's Budget:		0.000				
Current BES/President's Budget		1.680				
Total Adjustments		1.680	0.000	0.000	0.000	
Summary of Adjustments						
Cong. Plus-up - SPAWAR Covert Com	m & Info Transfer	1.700				
Section 8123: Mgmt Reform Initiative		-0.015				
Section 313: PL 107-206:Revised Eco	-0.004					
Section 8135: Economic Assumptions	-0.005					
Miscellaneous Department Adjustments	0.004					
Subtotal		1.680	0.000	0.000	0.000	
(U) Schedule:						
Not Applicable						
(U) Technical:						
Not Applicable						

CLASSIFICATION:

EXHIBIT	R-2a, RDT&E Proje	ect Justification								DATE:	Februa	rv 2003				
APPROPE	RIATION/BUDGET ACTI	VITY		PROGRAM E	LEMENT NUM	BER AND NAM	ЛЕ	PROJECT NU	1 y 2003							
RDT&E,		BA-7									nd Information Tra	formation Transfer To Total Complete Cost				
		FUNDING SUMMARY:														
L	ine Item No. & Name		FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	<u>Complete</u>	Cost				
	Not applicable															
(U)	E. ACQUISITION STRAT	EGY:														
	Not Applicable															

CLASSIFICATION:

									DATE:						
Exhibit R-3 Cost Analysis (page 1)						February 2003								
APPROPRIATION/BUDGET AC	PROGRAM E			PROJECT NU		NAME									
RDT&E, N / BA-7			PE 0305927N		Surveillance S		X9119 SPAW		communication an		n Transfer				
Cost Categories		Performing		Total		FY 03		FY 04		FY 05					
	Method	Activity &			FY 03	Award	FY 04	Award	FY 05	Award		Total	Target Value of Contract		
Driver - Headware Development	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost			
Primary Hardware Development	.			+								0.000			
Ancillary Hardware Development				+		+			+			0.000	+		
Aircraft Integration				+		+			+			0.000			
Ship Integration				+								0.000			
Ship Suitability												0.000			
Systems Engineering	PO	SSC		0.464								0.464	+		
Systems Engineering	MIPR	Nat'l Systems	Mgmt Activity	1.216								1.216			
Training Development												0.000	+		
Licenses												0.000			
Tooling												0.000			
GFE				1								0.000			
Award Fees				1								0.000	+		
				1								0.000			
				1								0.000			
				1								0.000			
												0.000			
				1								0.000			
												0.000			
												0.000			
												0.000			
												0.000			
												0.000			
												0.000			
												0.000			
Subtotal Product Development				1.680	0.000		0.000		0.000		0.000	1.680			
Remarks:															
					DINIO LIOT		000								

CLASSIFICATION:

									DATE:						
Exhibit R-3 Cost Ana	alysis (page 1)						February 2003								
APPROPRIATION/BUD			PROGRAM E				PROJECT NUMBER AND NAME								
RDT&E, N /	BA-7		PE 0305927N		Surveillance S		X9119 SPAW		Communication ar		on Transfer		•		
Cost Categories	Contrac Method & Type	Activity &		Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract		
Development Support												0.000			
Software Development												0.000)		
Integrated Logistics Suppo	rt											0.000)		
Configuration Management												0.000)		
Technical Data												0.000)		
Studies & Analyses												0.000)		
GFE												0.000)		
Award Fees												0.000)		
												0.000)		
												0.000)		
												0.000)		
												0.000)		
												0.000)		
												0.000)		
												0.000)		
												0.000)		
												0.000)		
												0.000)		
												0.000)		
												0.000)		
												0.000)		
												0.000)		
												0.000			
Subtotal Support				0.000	0.000		0.000		0.000		0.000	0.000			
Remarks:	·								,						

CLASSIFICATION:

									DATE:						
Exhibit R-3 Cost Analysis (pag	je 2)						February 2003								
APPROPRIATION/BUDGET ACTIV	ITY		PROGRAM ELEMENT	•			PROJECT NUMBER AND NAME								
RDT&E, N / BA-7			PE 0305927N Navy S	pace S	urveillance S		X9119 SPAV		ommunication a		Transfer				
Cost Categories	Contract	Performing	Total			FY 03		FY 04		FY 05					
	Method	Activity &	PY s		FY 03	Award	FY 04	Award	FY 05	Award			Target Value		
	& Type	Location	Cost		Cost	Date	Cost	Date	Cost	Date	Complete		of Contract		
Developmental Test & Evaluation												0.000			
Operational Test & Evaluation										1		0.000			
Live Fire Test & Evaluation										1		0.000			
Test Assets												0.000			
Tooling												0.000			
GFE										1		0.000			
Award Fees												0.000			
Subtotal T&E				0.000	0.000)	0.00	0	0.000	D	0.000	0.000			
Contractor Engineering Support												0.000			
Government Engineering Support												0.000			
Program Management Support												0.000			
Travel												0.000			
Transportation												0.000			
SBIR Assessment												0.000			
Subtotal Management				0.000	0.000		0.00	0	0.000	O	0.000	0.000			
Remarks:															
Total Cost				1.680	0.000		0.00	0	0.000		0.000	1.680			
Remarks:															