

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification								DATE: February 2004			
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY /						R-1 ITEM NOMENCLATURE PE 0305927N Navy Space Surveillance System (NSSS)					
BA-7											
COST (\$ in Millions)	Prior Years Cost		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Total Program
Total PE Cost	2.635		5.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.652
Project X0125 Navy Space Surveillance System	2.635		5.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.652
Quantity of RDT&E Articles											
<p>(U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>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.</p> <p>The Fence program transfers to US Air Force cognizance effective 2004. (X0125)</p> <p>(U) JUSTIFICATION FOR BUDGET ACTIVITY:</p> <p>This program is funded under Operational Systems Development because it encompasses engineering and manufacturing development for upgrading existing operational systems.</p>											

R-1 SHOPPING LIST - Item No. 202

UNCLASSIFIED

Exhibit R-2, RDTEN Budget Item Justification
(Exhibit R-2, page 1 of 9)

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE: February 2004			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7		PROGRAM ELEMENT NUMBER AND NAME PE 0305927N Navy Space Surveillance System (NSSS)				PROJECT NUMBER AND NAME X0125 Navy Space Surveillance System (NSSS)					
COST (\$ in Millions)	Prior Years Cost		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Total Program
Project Cost	2.635		5.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.652
RDT&E Articles Qty											0
<p>(U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>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.</p> <p>The Fence program transfers to US Air Force cognizance effective 2004.</p>											

R-1 SHOPPING LIST - Item No. 202

UNCLASSIFIED

Exhibit R-2a, RDTEN Project Justification
(Exhibit R-2a, page 2 of 9)

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2004												
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7		PROJECT NUMBER AND NAME X0125 Navy Space Surveillance System (NSSS)												
(U) B. Accomplishments/Planned Program <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"><thead><tr><th></th><th style="text-align: center;">FY 03</th><th style="text-align: center;">FY 04</th><th style="text-align: center;">FY 05</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td style="text-align: center;">5.017</td><td style="text-align: center;">0.000</td><td style="text-align: center;">0.000</td></tr><tr><td>RDT&E Articles Quantity</td><td style="text-align: center;">0</td><td style="text-align: center;">0</td><td style="text-align: center;">0</td></tr></tbody></table> <div style="border: 1px solid black; padding: 10px; min-height: 300px;"><p>(U) FY 2003 ACCOMPLISHMENTS: (\$5.017) (\$.487) Completed development of detailed architecture and design for RF sensors, communications, processing, modeling and simulation. (\$4.530) Developed RF sensor in order to provide a system demonstration prior to Critical Design Review (CDR).</p><p>(U) FY 2004 PLAN: Program transferred to U.S. Air Force.</p><p>(U) FY 2005 PLAN: N/A</p></div>				FY 03	FY 04	FY 05	Accomplishments/Effort/Subtotal Cost	5.017	0.000	0.000	RDT&E Articles Quantity	0	0	0
	FY 03	FY 04	FY 05											
Accomplishments/Effort/Subtotal Cost	5.017	0.000	0.000											
RDT&E Articles Quantity	0	0	0											

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2004
APPROPRIATION/BUDGET ACTIVITY RDTE&E, N / BA-7	PROGRAM ELEMENT NUMBER AND NAME PE 0305927N Navy Space Surveillance System (NSSS)	PROJECT NUMBER AND NAME X0125 Navy Space Surveillance System (NSSS)

(U) C. PROGRAM CHANGE SUMMARY:

	FY 2003	FY 2004	FY 2005
(U) Funding:			
President's Budget :	9.548	0.000	0.000
Current BES/President's Budget	5.017	0.000	0.000
Total Adjustments	-4.531	0.000	0.000
Summary of Adjustments			
SSGN	-3.999		
SEASNIPER	-0.200		
Section 8100: Business Process Reform	-0.038		
Section 8135: Economic Assumptions	-0.054		
Section 8109: IT Cost Growth	-0.018		
Section 8029: PL107-248 FY03 FFRDC Reduction	-0.006		
Miscellaneous Navy Adjustments			
Miscellaneous Department Adjustments	-0.216		
Subtotal	-4.531	0.000	0.000

(U) Schedule:

NOT APPLICABLE

(U) Technical:

NOT APPLICABLE

R-1 SHOPPING LIST - Item No. 202

UNCLASSIFIED

Exhibit R-2a, RDTEEN Project Justification
(Exhibit R-2a, page 4 of 9)

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2004		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7		PROGRAM ELEMENT NUMBER AND NAME PE 0305927N Navy Space Surveillance System (NSSS)			PROJECT NUMBER AND NAME X0125 Navy Space Surveillance System (NSSS)				

(U) D. OTHER PROGRAM FUNDING SUMMARY:

<u>Line Item No. & Name</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Complete</u>	<u>Total Cost</u>
(U) OPN Line #2901	1.992	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing

(U) E. ACQUISITION STRATEGY:

NOT APPLICABLE

R-1 SHOPPING LIST - Item No. 202

UNCLASSIFIED

UNCLASSIFIED

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)								DATE: February 2004				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-7			PE 0305927N Navy Space Surveillance System (NSSS)			X0125 Navy Space Surveillance System (NSSS)						
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
Primary Hardware Development	C/CPAF	TBD	1.200	3.206	05/03						4.406	
Ancillary Hardware Development											0.000	
Aircraft Integration											0.000	
Ship Integration											0.000	
Ship Suitability											0.000	
Systems Engineering			1.435	1.800							3.235	
Training Development											0.000	
Licenses											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Product Development			2.635	5.006		0.000		0.000		0.000	7.641	
Remarks:												
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		0.000		0.000	0.000	
Remarks:												

UNCLASSIFIED

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)								DATE: February 2004				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-7			PE 0305927N Navy Space Surveillance System (NSSS)			X0125 Navy Space Surveillance System (NSSS)						
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		0.000		0.000		0.000	0.000	
Remarks:												
Contractor Engineering Support											0.000	
Government Engineering Support											0.000	
Program Management Support	C/CPAF	TBD		0.011							0.011	
Travel											0.000	
Transportation											0.000	
SBIR Assessment											0.000	
Subtotal Management			0.000	0.011		0.000		0.000		0.000	0.011	
Remarks:												
Total Cost			2.635	5.017		0.000		0.000		0.000	7.652	
Remarks:												

UNCLASSIFIED

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																								DATE:								
APPROPRIATION/BUDGET ACTIVITY									PROGRAM ELEMENT NUMBER AND NAME												PROJECT NUMBER AND NAME											
RDT&E, N / BA-7									PE 0305927N Navy Space Surveillance System (NSSS)												X0125 Navy Space Surveillance System (NSSS)											
Fiscal Year	2002				2003				2004				2005				2006				2007				2008				2009			
	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																																
Prototype Phase																																
Radar System Development						PDR △		CDR △																								
Test & Evaluation Milestones																																
Development Test								DT △																								
Operational Test																																
Procurements																																
Deliveries																																

R-1 SHOPPING LIST - Item No. 202

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

UNCLASSIFIED

UNCLASSIFIED

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
						February 2004		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME		
RDT&E, N / BA-7			PE 0305927N Navy Space Surveillance System (NSSS)			X0125 Navy Space Surveillance System (NSSS)		
Schedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Milestone B (MSB)								
Contract Preparation								
Preliminary Design Review (PDR)		2Q						
System Development		1Q-4Q						
Critical Design Review (CDR)		4Q						
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. 202

UNCLASSIFIED

Exhibit R-4a, Schedule Detail
(Exhibit R-4a, page 9 of 9)