

**UNCLASSIFIED**

PE NUMBER: 0101313F  
 PE TITLE: STRAT WAR PLANNING SYS - USSTRATCOM

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	<b>DATE</b> <b>February 2008</b>
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<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0101313F STRAT WAR PLANNING SYS - USSTRATCOM</b>
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Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	24.774	20.130	17.553	19.018	20.575	20.582	21.255	Continuing	TBD
5059 Strategic War Planning System (SWPS)	24.774	13.400	10.319	10.609	10.782	10.690	11.165	Continuing	TBD
5282 Joint Navigation Warfare Center (JNWC)	0.000	6.730	7.234	8.409	9.793	9.892	10.090	0.000	0.000

**(U) A. Mission Description and Budget Item Justification**

The mission of USSTRATCOM is to establish and provide full-spectrum global strike, coordinated space and information operations capabilities to meet both deterrent and decisive national security objectives, and to provide operational space support, integrated missile defense, Global Command Control Communications and Computers Intelligence Surveillance and Reconnaissance (C4ISR), and specialized planning expertise to the joint warfighter. This mission has been defined by the 2002 Unified Command Plan (UCP) changes 1 and 2. To enable completion of these missions, USSTRATCOM is modernizing the Integrated Strategic Planning and Analysis Network (ISPAN) (formerly known as SWPS) and developing information systems and techniques to counter and conduct Navigation Warfare (NAVWAR).

When the ISPAN modernization is complete the system will support the warfighter in both deliberate and adaptive planning environment while allowing the National Command Authorities to employ the full spectrum of kinetic and non-kinetic weapons. The ISPAN system will continue to evolve as weapon systems are matured, new systems are developed, and the threat changes, particularly in the area of worldwide proliferation of Weapons of Mass Destruction (WMD).

Navigation Warfare (NAVWAR) is a warfighting application of electronic warfare (EW) and space control (SC) employing various techniques and technologies to negate or prevent hostile use of positioning, navigation, and timing (PNT) information and protect unimpeded use of PNT information by U.S., Allied, and Coalition Forces. The Joint Navigation Warfare Center (JNWC) was established under USSTRATCOM to integrate and coordinate NAVWAR PNT capabilities across the mission areas of intelligence, surveillance, reconnaissance, information operations, electronic warfare, and space control. Since the Global Positioning System (GPS) has become one of the most critical enablers of modern, advanced technology warfare it is imperative that access to its data remain unimpeded. The JNWC will develop models, conduct simulations and tests (with allied nations as appropriate) and provided related technological information to other defense development programs to ensure continued access to this data for defense purposes.

SWPS (including ISPAN and JNWC development activities) are in budget activity 7, Operational System Development, because their systems are operational, and currently support capabilities to create, verify, and produce OPLAN 8044, meet new UCP taskings, and produce other products.

## Exhibit R-2, RDT&amp;E Budget Item Justification

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0101313F STRAT WAR PLANNING SYS - USSTRATCOM

(U) **B. Program Change Summary (\$ in Millions)**

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	28.577	20.340	18.999
(U) Current PBR/President's Budget	24.774	20.130	17.553
(U) Total Adjustments	-3.803	-0.210	
(U) Congressional Program Reductions		-0.081	
Congressional Rescissions		-0.129	
Congressional Increases			
Reprogrammings	-3.000		
SBIR/STTR Transfer	-0.803		
(U) <u>Significant Program Changes:</u>			
FY07 reduction for higher AF priorities			

**Exhibit R-2a, RDT&E Project Justification**

DATE  
**February 2008**

<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>				<b>PE NUMBER AND TITLE</b> <b>0101313F STRAT WAR PLANNING SYS - USSTRATCOM</b>			<b>PROJECT NUMBER AND TITLE</b> <b>5059 Strategic War Planning System (SWPS)</b>		
Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
5059 Strategic War Planning System (SWPS)	24.774	13.400	10.319	10.609	10.782	10.690	11.165	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

**(U) A. Mission Description and Budget Item Justification**

The mission of USSTRATCOM is to establish and provide full-spectrum global strike, coordinated space and information operations capabilities to meet both deterrent and decisive national security objectives, and to provide operational space support, integrated missile defense, Global Command Control Communications and Computers Intelligence Surveillance and Reconnaissance (C4ISR), and specialized planning expertise to the joint warfighter. This mission has been defined by the 2002 Unified Command Plan (UCP) changes 1 and 2. To enable these missions, the Integrated Strategic Planning and Analysis Network (ISPAN) (formerly known as SWPS) must be capable of both deliberate and adaptive planning employing the full spectrum of kinetic and non-kinetic weapons. The planning system will continue to evolve as weapon systems are matured, new systems are developed, and the threat changes, particularly in the area of worldwide proliferation of Weapons of Mass Destruction (WMD).

In FY05, the ISPAN Modernization effort established a redesigned software architecture through requirements definition, and early design and developmental test activities. The ISPAN modernization program includes initiation of Course of Action (COA) Development, workflow and decision support development, Combatant Commander (COCOM) Collaboration (Global Operations Center Collaborative Environment (GOC CE), User Defined Operational Picture (UDOP)), conventional mission planning integration, and Mission Planning Analysis System (MPAS) maintenance and modernization. This includes software coding, integration of multiple internal and external planning applications, significant developmental test activities, and early operational test activities. ISPAN also includes automated data processing equipment (ADPE), software, facilities support, manpower, and training to support the mission objectives of ISPAN, associated deployable and distributed data processing nodes, and subsidiary systems.

SWPS is in budget activity 7, Operational System Development, because its systems are operational, and currently support capabilities to create, verify, and produce OPLAN 8044, meet new UCP taskings, and produce other products.

**(U) B. Accomplishments/Planned Program (\$ in Millions)**

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Accomplishments/Planned Program			
(U) Theater Planning Support continues the modernization of software applications for Air Vehicle Planning System (APS), Missile Graphics Planning System (MGPS) and Targeting in support of the Theater Planning Support Document for Combatant Commanders.	1.716		
(U) Modernize, integrate and test ISPAN planning tools. This includes, but is not limited to, completing required System Engineering, developing new tools as required, and modifying existing software tools to interface with newly developed ISPAN tools. The primary focus is to establish a service oriented N-Tier architecture for the ISPAN applications to use.	21.702	13.400	10.319

<b>Exhibit R-2a, RDT&amp;E Project Justification</b>	DATE <b>February 2008</b>
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<b>BUDGET ACTIVITY</b> 07 Operational System Development	<b>PE NUMBER AND TITLE</b> 0101313F STRAT WAR PLANNING SYS - USSTRATCOM	<b>PROJECT NUMBER AND TITLE</b> 5059 Strategic War Planning System (SWPS)
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<b>(U) B. Accomplishments/Planned Program (\$ in Millions)</b>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Global C2 Development Center will provide timely analysis of technologies and processes and identify innovative approaches to facilitate effective and timely integration of Net Centric capabilities. This effort was an FY06 and FY07 congressional add.	1.356		
(U) Total Cost	24.774	13.400	10.319

<b>(U) C. Other Program Funding Summary (\$ in Millions)</b>									
	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) Other Procurement, AF WSC 833140 Strategic Command and Control (Program Element 0101313F)	9.977	9.861	13.144	13.444	13.650	13.918	14.193	Continuing	TBD

**(U) D. Acquisition Strategy**  
ISPAN will develop and modernize strategic planning tools for the combatant commanders using an evolutionary acquisition strategy with spiral development contracts that are negotiated and awarded in a competitive environment.

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**Exhibit R-3, RDT&E Project Cost Analysis**

DATE

**February 2008**

BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE				
<b>07 Operational System Development</b>				<b>0101313F STRAT WAR PLANNING SYS - USSTRATCOM</b>					<b>5059 Strategic War Planning System (SWPS)</b>				
(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2007 Cost</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>	
(U) <u>Product Development</u>													
Air Vehicle Planning System (APS)	TM	BAE, San Diego, CA	4.890								4.890	TBD	
Missile Graphics Planning System (MGPS)	CPAF	Northrop Grumman, Bellevue, NE	1.286								1.286	1.286	
Missile Graphics Planning System (MGPS)	CPAF	Northrop Grumman, Bellevue, NE	3.153	2.050	Oct-06	2.018	Oct-07	1.595	Oct-08	Continuing	TBD	TBD	
Targeting	CPAF	SAIC, San Diego, Ca	0.800								0.800	0.800	
Targeting	CPAF	SAIC, San Diego, Ca	1.589	0.613	Oct-06	0.500	Oct-07		Oct-08		2.702	TBD	
ISPAN Modernization	CPAF	Lockheed Martin Integrated Systems, Bellevue, NE	32.397	18.116	Oct-06	6.651	Oct-07	5.224	Oct-08	Continuing	TBD	TBD	
Miscellaneous Contracts	CPAF	Pending	6.963	3.995	Oct-06	4.231	Oct-07	3.500	Oct-08	Continuing	TBD 0.000	TBD	
Subtotal Product Development			51.078	24.774		13.400		10.319		Continuing	TBD	TBD	
Remarks:													
(U) <u>Support</u>											0.000	0.000	
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000	
Remarks:													
(U) <u>(U) Test &amp; Evaluation</u>											0.000	0.000	
Subtotal (U) Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000	
Remarks:													
(U) Total Cost			51.078	24.774		13.400		10.319		Continuing	TBD	TBD	

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Project 5059

Exhibit R-3 (PE 0101313F)

Exhibit R-4, RDT&E Schedule Profile

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BUDGET ACTIVITY  
07 Operational System Development

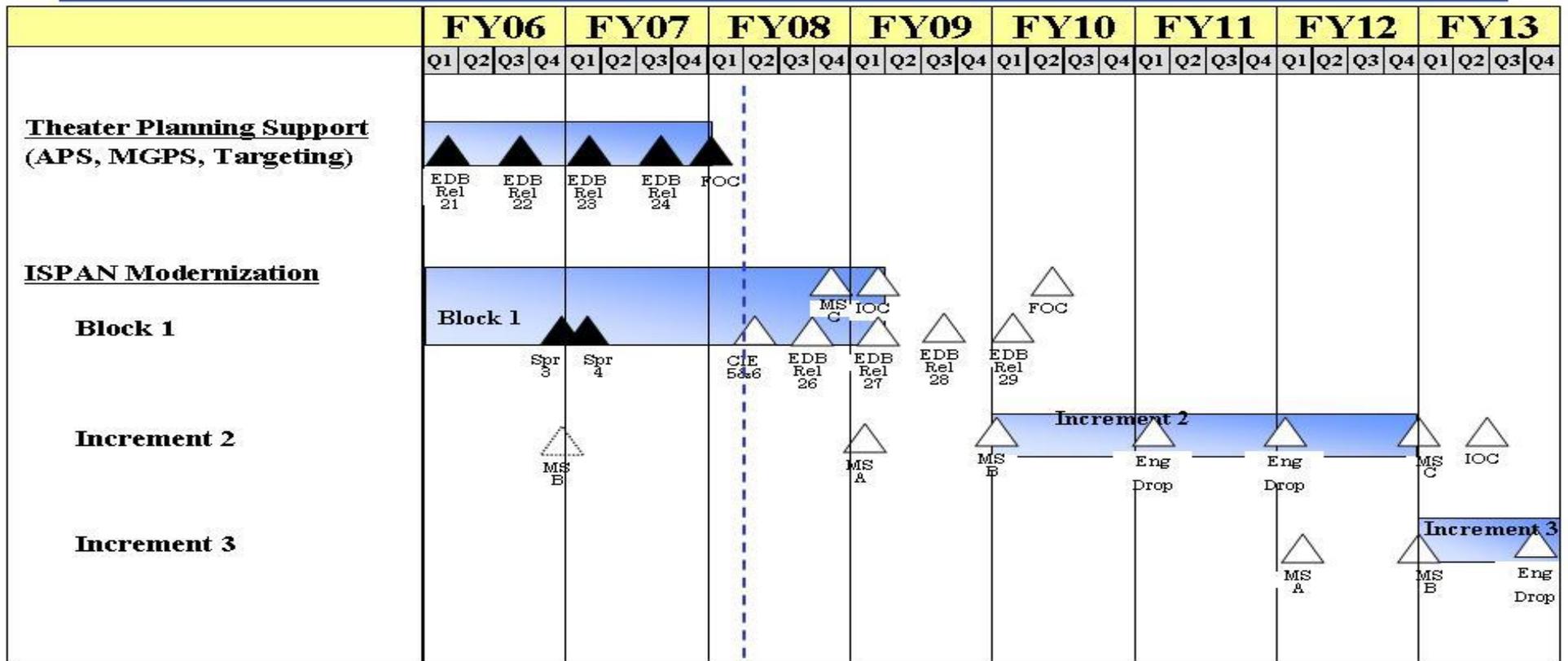
PE NUMBER AND TITLE  
0101313F STRAT WAR PLANNING  
SYS - USSTRATCOM

PROJECT NUMBER AND TITLE  
5059 Strategic War Planning System  
(SWPS)



U.S. AIR FORCE

# ISPAN Schedule



**Acronyms:**

EDB - Enterprise Database  
MS B - Milestone B

FOC - Full Operational Capability  
MS C - Milestone C

IOC - Initial Operational Capability  
MS A - Milestone A

As of: 26 Dec 07

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<b>Exhibit R-4a, RDT&amp;E Schedule Detail</b>	DATE <b>February 2008</b>
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<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0101313F STRAT WAR PLANNING SYS - USSTRATCOM</b>	<b>PROJECT NUMBER AND TITLE</b> <b>5059 Strategic War Planning System (SWPS)</b>
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	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) <b><u>Schedule Profile</u></b>			
(U) Theater Planning Support (APS, MGPS, Targeting)	1-4Q		
(U) Theater Planning Support FOC	4Q		
(U) ISPAN Modernization MS C		4Q	
(U) ISPAN Modernization IOC			1Q
(U) ISPAN Modernization Block 2 MS A			1Q

## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2008

BUDGET ACTIVITY 07 Operational System Development				PE NUMBER AND TITLE 0101313F STRAT WAR PLANNING SYS - USSTRATCOM			PROJECT NUMBER AND TITLE 5282 Joint Navigation Warfare Center (JNWC)		
Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
5282 Joint Navigation Warfare Center (JNWC)	0.000	6.730	7.234	8.409	9.793	9.892	10.090	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

**(U) A. Mission Description and Budget Item Justification**

Navigation Warfare (NAVWAR) is a warfighting application of electronic warfare (EW) and space control (SC) employing various techniques and technologies to negate or prevent hostile use of positioning, navigation, and timing (PNT) information and protect unimpeded use of PNT information by U.S., Allied, and Coalition Forces while not unduly disrupting peaceful use outside an area of operation. The Joint Navigation Warfare Center (JNWC) was established to integrate and coordinate NAVWAR PNT capabilities across the mission areas of intelligence, surveillance, reconnaissance, information operations, electronic warfare, and space control. In recent years, the Global Positioning System (GPS) has become one of the most critical enablers of modern, advanced technology warfare. In an era where everything from advanced weapons systems to basic goods and services are tracked or guided by navigation systems such as GPS, Navigation Warfare is an interest and concern, especially if those systems are interrupted or lost. The primary mission of NAVWAR is to provide joint warfighter support through three broad mission areas:

- a. Warfighter Operational Support - applies knowledge of PNT vulnerabilities, prevention capabilities, and system operations to integrate NAVWAR as an element of warfighting operations. It will provide reach-back capabilities to assist in resolving NAVWAR issues, address situations involving degradation or denial of PNT capabilities, and recommend actions to mitigate effects of both hostile and non-hostile events. NAVWAR develops and maintains current information for the warfighter and theater commanders to include assessments of adversary capabilities, assessments of coalition capabilities and limitations, and other topics of special interest.
- b. Test, Training, Exercises, and Experiments - conducts annual NAVWAR field test events, and provides NAVWAR technical assistance for training, exercises and experiments. The JNWC, as part of this effort, maintains the Single Integrated Joint NAVWAR Test Roadmap and the Single Integrated Coalition NAVWAR Test Roadmap under various international agreements. The annual field test event focuses on fielded operational systems and capabilities to baseline current electronic protection, support, and attack capabilities to optimize and deconflict theater/tactical assets. The test, training, exercise and experiment activities: 1) prepare the joint warfighter for operations in current and rapidly evolving NAVWAR threat environments; 2) establish priorities, standardized operational procedures for tactics, techniques, and procedures; 3) test electronic attack CONOPs to endure deconfliction and optimization with other operations to mitigate blue force fratricide; and 4) evolve standardized test methods.
- c. Navigation Warfare Information Analysis (Modeling, Simulation, Tools, and Methods) - develops and maintains methods, standards, models and simulations used in NAVWAR analysis and operates the Navigation Warfare Information Analysis Center (IAC). NAVWAR evaluates new models for accuracy and applicability to specific situations and rapidly evolving threat environments. It will also develop and maintain standard test methodologies created solely by the U.S. as well as test methods developed in collaboration with coalition partners. These standard methodologies ensure data sharing is efficient and effective, and ensures accurate feedback

**Exhibit R-2a, RDT&E Project Justification**

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BUDGET ACTIVITY <b>07 Operational System Development</b>	PE NUMBER AND TITLE <b>0101313F STRAT WAR PLANNING                  SYS - USSTRATCOM</b>	PROJECT NUMBER AND TITLE <b>5282 Joint Navigation Warfare Center                  (JNWC)</b>
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to the operational communities. The JNWC, as part of this effort, manages the GPS EA frequency clearance process and conducts independent analysis and verification of EA frequency clearance requests. It also maintains and upgrades the GPS-RPM as required and conducts modeling and simulation exercises on GPS interference to include test and exercise threat laydowns for DoD organizations unable to perform their own modeling. The NAVWAR IAC serves as a source of NAVWAR information and technical expertise for DoD researchers, engineers, program managers, warfighters, testers, and others. It will collect, analyze, synthesize, and disseminate scientific and technical information in clearly defined specialized subject areas. It promotes standardization by: 1) providing in-depth analyses; 2) creating products that respond to technical inquiries; 3) preparing state-of-the-art reports, handbooks, and databases; 4) conducting technology assessments; and 5) supporting the exchange of information within the NAVWAR community.

JNWC is in budget activity 7, Operational System Development, because it improves the accessibility and survivability of information for and from systems that are in operational use by providing reach-back analysis as well as threat, adversary, and intelligence assessments.

(U) <b><u>B. Accomplishments/Planned Program (\$ in Millions)</u></b>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) NAVWAR Warfighter Operational Support - COCOM reachback analysis, threat assessments, adversary assessments, intel assessments	0.000	1.330	1.734
(U) NAVWAR Test, Training, Exercises, & Experiments - Field Tests, NATO Exercises, Trials & Demonstrations, U.S. Exercises	0.000	2.800	2.800
(U) NAVWAR Modeling, Simulation, Tools, & Methods - Integrated Analysis Center (IAC), Global Positioning System Reliability Prediction Model (GPS-RPM) Upgrades, GPS EA frequency clearance evaluations, modeling and simulation methodologies, standards and analysis	0.000	2.600	2.700
(U) Total Cost	0.000	6.730	7.234

(U) <b><u>C. Other Program Funding Summary (\$ in Millions)</u></b>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) None	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	TBD

(U) **D. Acquisition Strategy**  
 NAVWAR will investigate, test, and simulate potential threats and mitigation strategies for preventing the hostile use of Positioning, Navigation and Timing (PNT) information through the use of competitive contracts and selective employment of government agencies.

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**Exhibit R-3, RDT&E Project Cost Analysis**

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<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0101313F STRAT WAR PLANNING SYS - USSTRATCOM</b>	<b>PROJECT NUMBER AND TITLE</b> <b>5282 Joint Navigation Warfare Center (JNWC)</b>
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<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2007 Cost</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
<u>(U) Product Development</u>												
Subtotal Product Development			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
<u>(U) Support</u>												
NAVWAR Warfighter Operational Support	TM	Overlook Systems Technology, Inc, Vienna, VA				1.330	Oct-07	1.734	Oct-08	Continuing	TBD	TBD
NAVWAR Modeling, Simulation, Tools & Methods and Integrated Analysis Center	TM	Overlook Systems Technology, Inc, Vienna, VA				2.600	Oct-07	2.700	Oct-08	Continuing	TBD	TBD
Subtotal Support			0.000	0.000		3.930		4.434		Continuing	TBD	TBD
Remarks:												
<u>(U) Test &amp; Evaluation</u>												
JNWC Field Tests	PO	Multiple Government Agencies		0.000		2.800	Oct-07	2.800	Oct-07	Continuing	TBD	TBD
Subtotal Test & Evaluation			0.000	0.000		2.800		2.800		Continuing	TBD	TBD
Remarks:												
<u>(U) Management</u>												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
<u>(U) Total Cost</u>			0.000	0.000		6.730		7.234		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

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BUDGET ACTIVITY  
07 Operational System Development

PE NUMBER AND TITLE  
0101313F STRAT WAR PLANNING  
SYS - USSTRATCOM

PROJECT NUMBER AND TITLE  
5282 Joint Navigation Warfare Center  
(JNWC)

# NavWar Schedule

As of 11 Jan 08

	FY07				FY08				FY09				FY10				FY11				FY12				FY13			
	1Q	2Q	3Q	4Q																								
<b>Warfighter Ops Support</b>																												
Contract Award				▲																								
Ongoing Support					▲																							
<b>Tests, Trials, and Experiments</b>																												
GYPHY Field Tests				▲▲																								
US Exercises			▲▲																									
Navwar Test/Trials				▲																								
NATO Exercises	▲				▲																							
<b>Modeling and Simulation</b>																												
GPS-RPM Upgrades																												
GPS EA Freq Clearance																												
Methods & Tools																												
Data Collection, Analysis, Investigation																												
Continuing Data Analysis																												

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**Exhibit R-4a, RDT&E Schedule Detail**

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BUDGET ACTIVITY <b>07 Operational System Development</b>	PE NUMBER AND TITLE <b>0101313F STRAT WAR PLANNING                  SYS - USSTRATCOM</b>	PROJECT NUMBER AND TITLE <b>5282 Joint Navigation Warfare Center                  (JNWC)</b>
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(U) <u>Schedule Profile</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) NAVWAR Operational Support Contract Award	4Q		4Q
(U) NAVWAR Test, Training, Exercises & Experiments - GYPSY Field Test	4Q		3Q
(U) NAVWAR Test, Training, Exercises & Experiments - US Exercises	3Q		3Q
(U) NAVWAR Test, Training, Exercises & Experiments - Test/Trials		2-4Q	2-4Q
(U) NAVWAR Test, Training, Exercises & Experiments - NATO Trials/Exercises		1Q	
(U) GPS Frequency Clearance	1-4Q	1-4Q	1-4Q