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

Exhibit R-2, RDT&E Budget Item Justification	DATE: May 2009
BUDGET ACTIVITY: 07 Operational System Development	PE NUMBER AND TITLE: 0101313F STRAT WAR PLANNING SYS - USSTRATCOM

	Cost ($ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
	Total Program Element (PE) Cost	25.159	17.505	33.836	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
5059	Strategic War Planning System (SWPS)	18.429	10.271	10.429	0.000	0.000	0.000	0.000	0.000	0.000	TBD
5282	Joint Navigation Warfare Center (JNWC)	6.730	7.234	8.267	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
5368	GSIN (Global Sensor Integrated Network)	0.000	0.000	15.140	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

FY2008 funding for project 5059 includes $7.095M of Supplemental funding for a classified USSTRATCOM effort. In FY2010 Project 5368, Global Sensor Integrated Network (GSIN) transferred from PE 0105921F, Service Support to STRATCOM Space Activities, in order to better align effort and appropriation.

(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), developing information systems and techniques to counter and conduct Navigation Warfare (NAVWAR) and establishing a unified national architecture integrating disparate Missile Warning/Missile Defense (MW/MD) systems into a single Internet Protocol (IP)-based system known as the Global Sensor Integrated Network (GSIN) to provide redundant and unambiguous MW/MD data to national leadership.

When the ISPAN modernization is complete the system will support the warfighter in both deliberate and adaptive planning environments 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), Information Operations (IO) 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. The JNWC is also commissioned to integrate NAVWAR into space operations and assists the warfighter with subject matter expertise to “operationalize” NAVWAR, encouraging the NAVWAR view that the Global Positioning System is a taskable weapons system in addition to being a worldwide PNT service. The JNWC establishes and maintains the Department’s premier basis of NAVWAR expertise, and provides subject matter expertise and knowledge support to warfighters, Department decision makers, the Federal Interagency (the Department of Homeland Security and other civil agencies concerned

with the Critical National Infrastructure), and the coalition through testing and evaluation; modeling, simulation and analysis; and exercise and training support.

The Nation's strategic C2, sensors and mission planning programs can not rapidly exchange information across multiple missions, creating ambiguity that delays time critical national C2 decision making processes. GSIN establishes a unified national architecture integrating disparate MW/MD systems into a single IP-based system providing redundant and unambiguous MW/MD data to national leadership. GSIN nets together all sensors, from tactical to strategic, including the Nation's most modern and capable assets - taking advantage of their larger numbers, improved algorithms, mobility and forward deployment to provide earlier cross-cueing and expanded decision space when every second counts. GSIN will permit an IP-based UDOP to augment voice conferencing and rapidly build a single, unambiguous missile event picture allowing real-time senior collaboration for nuclear C2 and improved senior leader situational awareness (SA) and decision-making

SWPS (including ISPAN, JNWC and GSIN 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 8010, meet new UCP taskings, and produce other products.

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

		FY 2008	FY 2009	FY 2010
(U)	Previous President's Budget	20.130	17.553	19.018
(U)	Current PBR/President's Budget	25.159	17.505	33.836
(U)	Total Adjustments	5.029	-0.048	
(U)	Congressional Program Reductions			
	Congressional Rescissions		-0.048	
	Congressional Increases	7.095		
	Reprogrammings	-1.500		
	SBIR/STTR Transfer	-0.566		

(U) Significant Program Changes:

- FY08 changes are due to an FY08 Supplemental increase ($7.095) for a classified USSTRATCOM effort. Approximately $4.5M of this increase was subsequently reprogrammed to PE 0307141F (NASS, IO Tech Integration and Tool Development) and 0201004F (Moonglow) to correct an administrative error. In addition, $3.0M was reprogrammed into this PE (project 5059, Strategic War Planning System) to support ISPAN Block 1 development.
- FY10 ($15.14M) increase is for the Global Sensor Integrated Network (GSIN) effort. FY08 and FY09 GSIN efforts were previously funded with resources from PEs 01015921F and 0201140J, Combatant Commander Initiative Fund (CCIF).

Exhibit R-2a, RDT&E Project Justification			DATE: May 2009
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)	

Cost ($ in Millions)		FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
5059	Strategic War Planning System (SWPS)	18.429	10.271	10.429	0.000	0.000	0.000	0.000	0.000	0.000	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

FY2008 funding for project 5059 includes $7.095M of Supplemental funding for a classified USSTRATCOM effort.

(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, as well as developmental 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. Activities also include studies and analysis to support both current program planning and execution and future program planning.

(U) B. Accomplishments/Planned Program ($ in Millions)	FY 2008	FY 2009	FY 2010
(U) ISPAN Block 1 Modernization (MPAS). This includes development of the Dynamic Application and Rapid Tageting System (DARTS) as well as completion of a Graphical Editor for the legacy Mission Planning and Analysis System (MPAS).	2.278	1.484	
(U) ISPAN Block 1 Modernization (CIE). This effort will develop, integrate and test ISPAN planning tools. This includes, but is not limited to, completing required System Engineering, developing new tools, 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. The new/enhanced tools and applications will collectively form the ISPAN Collaborative Information Environment (CIE).	13.556	3.539	
(U) ISPAN Block 1 Pre-FOC Enhancement. This includes (but is not limited to) expanding user base at distributed operations, continue Global Distributed Enhancement (GSD, Enterprise Service Bus migration and technology		5.248	5.277

Exhibit R-2a, RDT&E Project Justification		DATE: May 2009
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) B. Accomplishments/Planned Program ($ in Millions)

		FY 2008	FY 2009	FY 2010
	enhancement effort started in FY08, and Global Situational Awareness Tool performance and portal enhancements.			
(U)	ISPAN Increment 2 Modernization. This includes post-Milestone B development activities for the next increment of planning tools for the ISPAN Collaborative Information Environment (CIE).			5.152
(U)	Classified USSTRATCOM Project (funded in FY08 Supplemental)	2.595		
(U)	Total Cost	18.429	10.271	10.429

(U) C. Other Program Funding Summary ($ in Millions)

	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total Cost
(U) Other Procurement, AF WSC 833140 Strategic Command and Control (Program Element 0101313F)	9.861	13.105	13.252						Continuing	TBD

(U) D. Acquisition Strategy

ISPAN will develop and modernize strategic planning tools for the combatant commanders using an evolutionary acquisition strategy with development contracts that are negotiated and awarded in a competitive environment.

Exhibit R-3, RDT&E Project Cost Analysis

DATE: May 2009

BUDGET ACTIVITY: 07 Operational System Development

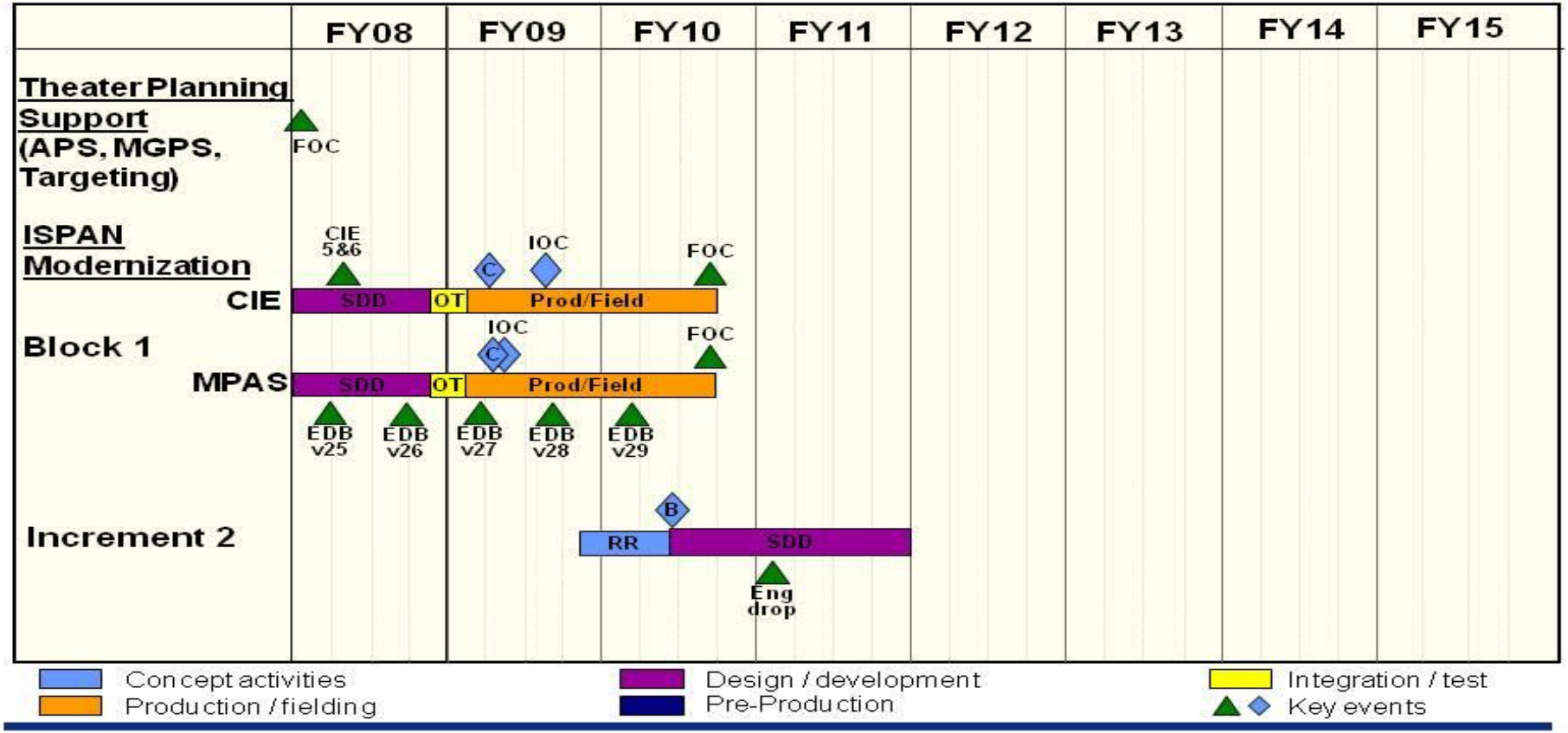
PE NUMBER AND TITLE: 0101313F STRAT WAR PLANNING SYS - USSTRATCOM

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

(U)	Cost Categories (Tailor to WBS, or System/Item Requirements) ($ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2008 Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U)	Product Development												
	Air Vehicle Planning System (APS)	TM	BAE, San Diego, CA	4.890	0.000		0.000		0.000		0.000	4.890	47.100
	Missile Graphics Planning System (MGPS)	CPAF	Northrop Grumman, Bellevue, NE	1.286	0.000		0.000		0.000		0.000	1.286	15.000
	Missile Graphics Planning System (MGPS)	CPAF	Northrop Grumman, Bellevue, NE	5.203	1.778	Oct-07	1.484	Oct-08	0.000		0.000	8.465	41.000
	Targeting	CPAF	SAIC, San Diego, Ca	0.800	0.000		0.000		0.000		0.000	0.800	15.000
	Targeting	CPAF	SAIC, San Diego, Ca	2.202	0.500	Oct-07	0.000	Oct-08	0.000		0.000	2.702	36.200
	ISPAN Modernization	CPAF	Lockheed Martin Integrated Systems, Bellevue, NE	50.513	9.796	Oct-07	6.042	Oct-08	7.656	Oct-09	16.581	90.588	156.183
	Miscellaneous Contracts	CPAF	Pending	10.958	3.760	Oct-07	2.745	Oct-08	2.773	Oct-09	5.546	25.782	TBD
	Classified Project (FY08 Supplemental)				2.595							2.595	
												0.000	
	Subtotal Product Development			75.852	18.429		10.271		10.429		22.127	137.108	TBD
	Remarks:												
(U)	Support												
												0.000	
	Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
	Remarks:												
(U)	(U) Test & Evaluation												
												0.000	
	Subtotal (U) Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000
	Remarks:												
(U)	Total Cost			75.852	18.429		10.271		10.429		22.127	137.108	TBD

Exhibit R-4, RDT&E Schedule Profile		DATE: May 2009
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)

ISPAN Block 1 / Increment 2 Schedule



PB10 R-Docs

Depicted by installation/production flow

1

Exhibit R-4a, RDT&E Schedule Detail		DATE: May 2009
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) Schedule Profile	FY 2008	FY 2009	FY 2010
(U) ISPAN Block 1 MS C		2Q	
(U) ISPAN Block 1 IOT&E	4Q		
(U) ISPAN Block 1 IOC		3Q	
(U) ISPAN Increment 2 MS B			2Q
(U) ISPAN Block 1 FOC			3Q

Exhibit R-2a, RDT&E Project Justification			DATE: May 2009
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 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
5282	Joint Navigation Warfare Center (JNWC)	6.730	7.234	8.267	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
	Quantity of RDT&E Articles	0	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), Information Operations (IO), 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) integrates and coordinates NAVWAR PNT capabilities across the mission areas of intelligence, surveillance, reconnaissance, information operations, electronic warfare, cyber and space control. The JNWC establishes and maintains the Department's premier basis of NAVWAR expertise, and provides subject matter expertise and knowledge support to warfighters, Department decision makers, the Federal Interagency (the Department of Homeland Security and other civil agencies concerned with the Critical National Infrastructure), and the coalition through testing and evaluation; modeling, simulation and analysis; and exercise and training support. 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. Likewise, as Global Navigation Satellite Systems (GNSS) proliferate, it becomes necessary to consider not only denying adversary use of GPS but also negating adversary use of alternate GNSS systems for PNT. The primary mission of the JNWC is to provide joint warfighter NAVWAR support through three broad mission areas:

a. Warfighter Operational Support – The JNWC applies knowledge of PNT vulnerabilities, prevention capabilities, and system operations to integrate NAVWAR as an element of warfighting operations. The JNWC provides 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. The JNWC 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. The JNWC also provides subject matter expertise and knowledge support to Department acquisition and policy decision makers, the Federal Interagency (the Department of Homeland Security and other civil agencies concerned with the Critical National Infrastructure), and the coalition.

b. Test, Training, Exercises, and Experiments – This JNWC mission area is the centerpiece for maintaining NAVWAR currency of information for the warfighter. The JNWC conducts annual NAVWAR field test events, and provides NAVWAR technical assistance for training, exercises and experiments. The JNWC, as part of this effort, maintains Integrated Joint NAVWAR Test Roadmaps and current intelligence products on adversary NAVWAR capabilities and Coalition NAVWAR capabilities and vulnerabilities. JNWC GYPSY field test events focus on fielded operational systems and capabilities to integrate NAVWAR and PNT operations, to baseline current NAVWAR electronic protection, support, and attack capabilities, and to assist warfighters optimize and deconflict theater/tactical assets. JNWC FORTUNE field test events are more engineering focused and are used to evaluate specific NAVWAR capabilities or vulnerabilities, and to reduce engineering risk for GYPSY events. 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 Center (IAC) – The JNWC develops and maintains methods, standards, models and simulations used in NAVWAR analysis and operates the NAVWAR Information Analysis Center (IAC). JNWC evaluates new models for accuracy and applicability to specific situations and rapidly evolving threat environments. It also develops and maintains 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 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 GPS frequency clearance model 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 collects, analyzes, synthesizes, and disseminates 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.

Activities also include studies and analysis to support both current program planning and execution and future program planning.

(U)	**B. Accomplishments/Planned Program ($ in Millions)**	FY 2008	FY 2009	FY 2010
(U)	NAVWAR Warfighter Operational Support - COCOM reachback analysis, threat assessments, adversary assessments, and intel asessments	1.330	1.733	1.780
(U)	NAVWAR Test, Training, Exercises, & Experiments - FORTUNE and GYPSY Field Tests, NATO Trials, U.S. Tests, Exercises and Experiments	2.800	2.725	3.041
(U)	NAVWAR Modeling, Simulation, Tools and Methods - Information Analysis Center (IAC), Global Positioning System Reliability Prediction Model (GPS-RPM) Upgrades, GPS frequency clearance evaluations, modeling and simulation methodologies, standards and analysis	2.600	2.776	3.446
(U)	Total Cost	6.730	7.234	8.267

(U) C. Other Program Funding Summary ($ in Millions)

	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total Cost
(U) N/A										

(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.

Exhibit R-3, RDT&E Project Cost Analysis

DATE: May 2009

BUDGET ACTIVITY: 07 Operational System Development

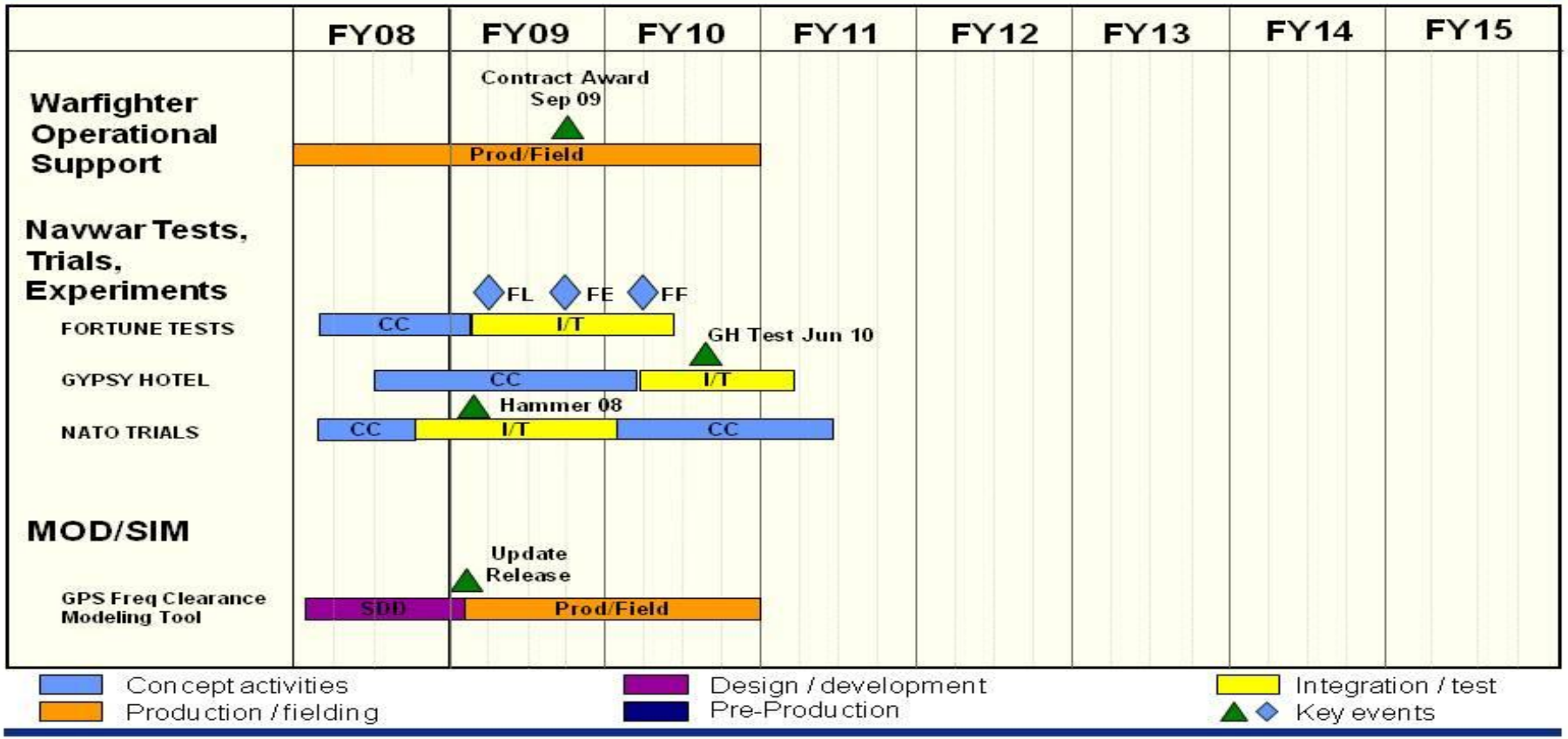
PE NUMBER AND TITLE: 0101313F STRAT WAR PLANNING SYS - USSTRATCOM

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

(U) Cost Categories (Tailor to WBS, or System/Item Requirements) ($ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2008 Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) Product Development												
Subtotal Product Development			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Support												
NAVWAR Warfighter Operational Support	TM	Overlook Systems Technologies, Inc, Vienna VA; Kirtland AFB, NM	0.000	1.330	Oct-07	1.733	Oct-07	1.780	Oct-09	Continuing	TBD	TBD
NAVWAR Modeling, Simulation, Tools & Methods and Integrated Analysis Center	TM	Overlook Systems Technologies, Inc, Vienna VA; Kirtland AFB, NM	0.000	2.600	Oct-07	2.776	Oct-07	3.446	Oct-09	Continuing	TBD	TBD
Subtotal Support			0.000	3.930		4.509		5.226		Continuing	TBD	TBD
Remarks:												
(U) Test & Evaluation												
FORTUNE and GYPSY field tests, NATO trials, US Tests, Exercises and Experiments	PO	Multiple Government Agencies and Overlook Systems Technologies, Inc, Vienna VA; Kirtland AFB, NM and various test ranges	0.000	2.800	Oct-07	2.725	Oct-07	3.041	Oct-09	Continuing	TBD	TBD
Subtotal Test & Evaluation			0.000	2.800		2.725		3.041		Continuing	TBD	TBD
Remarks:												
(U) Management												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			0.000	6.730		7.234		8.267		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile		DATE: May 2009
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 Program Schedule



PB10 R-Docs

Depicted by installation/production flow

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Exhibit R-4a, RDT&E Schedule Detail		DATE: May 2009
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)

(U) Schedule Profile	FY 2008	FY 2009	FY 2010
(U) NAVWAR Operational Support Contract Award		4Q	
(U) NAVWAR Test, Training, Exercises and Experiments - FORTUNE Field Tests		2-3Q	1Q
(U) NAVWAR Test, Training, Exercises & Experiments - GYPSY HOTEL Tests			3Q
(U) NAVWAR Test, Training, Exercises & Experiments - NATO Trials & Exercises		1Q	
(U) GPS Frequency Clearance		1Q	

Exhibit R-2a, RDT&E Project Justification			DATE: May 2009
BUDGET ACTIVITY: 07 Operational System Development	PE NUMBER AND TITLE: 0101313F STRAT WAR PLANNING SYS - USSTRATCOM	PROJECT NUMBER AND TITLE: 5368 GSIN (Global Sensor Integrated Network)	

	Cost ($ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
5368	GSIN (Global Sensor Integrated Network)	0.000	0.000	15.140	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

In FY2010 Project 5368, Global Sensor Integrated Network (GSIN) transferred from PE 0105921F, Service Support to STRATCOM Space Activities, in order to better align effort and appropriation.

(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. GSIN nets together all sensors, from tactical to strategic, including the Nation's most modern and capable assets - taking advantage of their larger numbers, improved algorithms, mobility and forward deployment to provide earlier cross-cueing and expanded decision space when every second counts. GSIN will permit an IP-based User Defined Operating Picture (UDOP) to augment voice conferencing and rapidly build a single, unambiguous missile event picture allowing real-time senior collaboration for nuclear C2 and improved senior leader situational awareness (SA) and decision-making.

The Nation's strategic C2, sensors and mission planning programs can not rapidly exchange information across multiple missions, creating ambiguity that delays time critical national C2 decision making processes. The problem is most evident in the Department's missile warning (MW) and missile defense (MD) programs. GSIN establishes a unified national architecture integrating disparate MW/MD systems into a single IP-based system providing redundant and unambiguous MW/MD data to national leadership.

Activities also include studies and analysis to support both current program planning and execution and future program planning.

	B. Accomplishments/Planned Program ($ in Millions)	FY 2008	FY 2009	FY 2010
(U)	Develop options and implementation plans for the spiral development phase to mature data exposure capabilities and migrate the data to a common, XML net-enabled command capability solution	0.000	0.000	4.070
(U)	Provide individual sensor and event track data, status and health data, additional information assurance (IA) capabilities and public key infrastructure certificate software management on secret IP routing networks (SIPRnet)	0.000	0.000	4.070
(U)	Develop guard software for DISA secret and below interoperability and creates and coordinates IA documentation. Supports security test and evaluation. Conducts development, non-degradation, and operational testing. Registers data schema and services with appropriate registries/catalogs.	0.000	0.000	7.000
(U)	Total Cost	0.000	0.000	15.140

Exhibit R-2a, RDT&E Project Justification		DATE: May 2009
BUDGET ACTIVITY: 07 Operational System Development	PE NUMBER AND TITLE: 0101313F STRAT WAR PLANNING SYS - USSTRATCOM	PROJECT NUMBER AND TITLE: 5368 GSIN (Global Sensor Integrated Network)

(U) C. Other Program Funding Summary ($ in Millions)

	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total Cost
(U) CCIF O&M, PE 0201140J, (Combatant Commanders Initiatives Fund)	4.900	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.900	4.900
(U) AF O&M, PE 0105921, (Service Support to STRATCOM Space Activities)	0.000	5.000	0.000	0.000	0.000	0.000	0.000	0.000	5.000	5.000

FY08 COCOM Initiative Fund and FY09 USSTRATCOM O&M initiated GSIN with software modifications to Command and Control Battle Management Communication system and Command and Control Processing Display System Requirements to provide an integrated, internet protocol based Common Operating Picture.

(U) D. Acquisition Strategy

GSIN will use MDA, ESC, JFCC-IMD, and other available contract vehicles to develop and modernize the combined MW / MD solution and architecture. These contract vehicles are already in place.

Exhibit R-3, RDT&E Project Cost Analysis

DATE: May 2009

BUDGET ACTIVITY: 07 Operational System Development

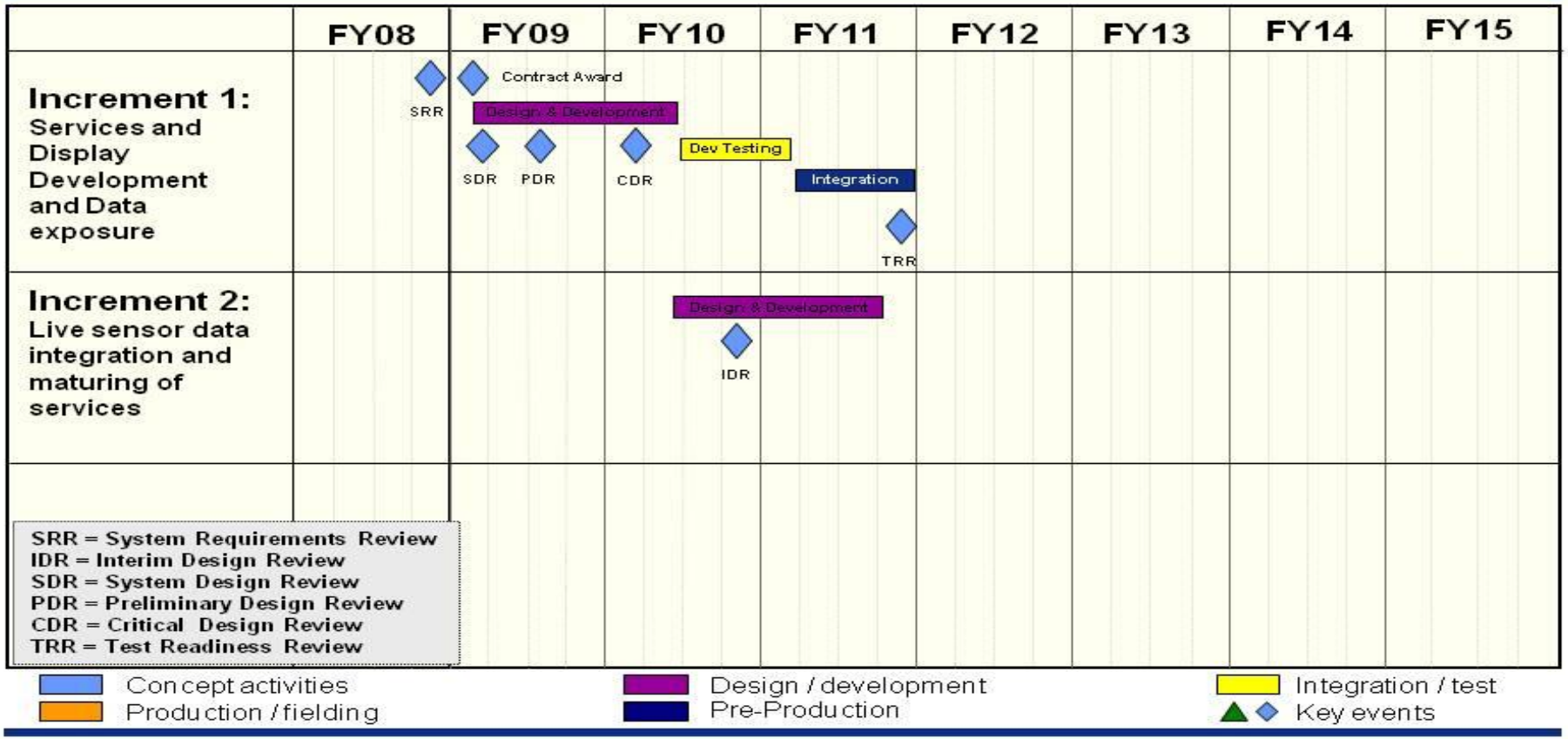
PE NUMBER AND TITLE: 0101313F STRAT WAR PLANNING SYS - USSTRATCOM

PROJECT NUMBER AND TITLE: 5368 GSIN (Global Sensor Integrated Network)

(U) Cost Categories (Tailor to WBS, or System/Item Requirements) ($ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2008 Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) Product Development												
Missile Warning software development	CPAF	Lockheed Martin, Colorado Springs, CO	0.000					7.000	Jan-10	Continuing	TBD	TBD
Missile Defense software development	CPAF	Lockheed Martin, Gaithersburg, MD	0.000					8.140	Jul-10	Continuing	TBD	TBD
Subtotal Product Development			0.000	0.000		0.000		15.140		Continuing	TBD	TBD
Remarks:												
(U) Support												
											0.000	
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Test & Evaluation												
											0.000	
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Management												
											0.000	
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			0.000	0.000		0.000		15.140		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile		DATE May 2009
BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0101313F STRAT WAR PLANNING SYS - USSTRATCOM	PROJECT NUMBER AND TITLE 5368 GSIN (Global Sensor Integrated Network)

GSIN Schedule



PB10 R-Docs

Depicted by installation/production flow

Exhibit R-4a, RDT&E Schedule Detail		DATE May 2009
BUDGET ACTIVITY **07 Operational System Development**	PE NUMBER AND TITLE **0101313F STRAT WAR PLANNING SYS - USSTRATCOM**	PROJECT NUMBER AND TITLE **5368 GSIN (Global Sensor Integrated Network)**

(U) Schedule Profile	FY 2008	FY 2009	FY 2010
(U) GSIN contract award, System Design Review		1Q	
(U) GSIN Preliminary Design Review		3Q	
(U) GSIN Complete Design Review			1Q
(U) GSIN Spiral 2 Interim Design Review			4Q

Note: FY09 requirements funded by Combatant Commanders (COCOM) Initiative Fund (CIF).