Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force										DATE: February 2012	

APPROPRIATION/BUDGET ACTIVITY
3600: *Research, Development, Test & Evaluation, Air Force*
BA 7: *Operational Systems Development*

R-1 ITEM NOMENCLATURE
PE 0101313F: *STRAT WAR PLANNING SYS - USSTRATCOM*

COST ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	30.133	22.791	30.889	-	30.889	11.920	7.424	5.735	3.568	Continuing	Continuing
675059: *Strategic War Planning System (SWPS)*	18.056	10.118	21.155	-	21.155	-	-	-	-	Continuing	Continuing
675282: *Joint Navigation Warfare Center (JNWC)*	9.102	9.551	-	-	-	-	-	-	-	Continuing	Continuing
675368: *GSIN (Global Integrated Sensor Network)*	2.975	3.122	9.734	-	9.734	11.920	7.424	5.735	3.568	Continuing	Continuing

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

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force	DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0101313F: *STRAT WAR PLANNING SYS - USSTRATCOM*

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 User Defined Operational 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.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

B. Program Change Summary ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	28.441	23.072	22.650	-	22.650
Current President's Budget	30.133	22.791	30.889	-	30.889
Total Adjustments	1.692	-0.281	8.239	-	8.239
• Congressional General Reductions	-	-0.281			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	2.967	-			
• SBIR/STTR Transfer	-0.814	-			
• Other Adjustments	-0.461	-	8.239	-	8.239

Change Summary Explanation

FY11 increased $2.967M for Global Sensor Integrated Network (GSIN).

FY11 Congressional General Reduction of 0.461M in Other Adjustment row.

FY12 Congressional General Reduction (FFRDC, Sec. 8023) of 0.281M.

FY13 increased a total of $8.239M based on a reduction of $9.666M for Joint Navigation Warfare Center, an increase of $10.7M for Integrated Strategic Planning and Analysis Network Increment 4, and an increase of $7.205M for GSIN.

In FY 2013, 675282, Joint Navigation Warfare Center, efforts were transferred to PE 0105921F, Service Support to STRATCOM Space Activities (O&M).

Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force									DATE: February 2012	

APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM	PROJECT 675059: Strategic War Planning System (SWPS)

COST ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
675059: Strategic War Planning System (SWPS)	18.056	10.118	21.155	-	21.155	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

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).

The ISPAN modernization program includes initiation of Course of Action (COA) Development as a service to the DoD enterprise, workflow and decision support development, Combatant Commander (COCOM) Collaboration, 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.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
Title: ISPAN Increment 2 Modernization Description: Funds the next increment of planning tools for the ISPAN Collaborative Information Environment (CIE). Increment 2 continues by building on capabilities delivered in Block 1. Increment 2 will develop advanced decision support capabilities for senior leader situational awareness through enhanced data analysis and visualization, and expand development of services and operational nodes to support Global Information Grid (GIG) Enterprise services and distributed operation. FY 2011 Accomplishments:	18.056	10.118	2.800

Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0101313F: *STRAT WAR PLANNING SYS -* *USSTRATCOM*	**PROJECT** 675059: *Strategic War Planning System* *(SWPS)*

B. Accomplishments/Planned Programs ($ in Millions)	**FY 2011**	**FY 2012**	**FY 2013**
Completed development activities for CIE and Net-centricity and enhanced planning capabilities. Developed advanced decision support capabilities for senior leader situational awareness through enhanced data analysis and visualization, and expanded development of services and operational nodes to support GIG Enterprise services and distributed operations. ***FY 2012 Plans:*** Continue Increment 2 Modernization development effort and enhancing planned capabilities. ***FY 2013 Plans:*** Continues Increment 2 Modernization development effort and working delinquency reports.			
Title: Increment 3 Modernization ***Description:*** Funds pre-Milestone B risk reduction activities for the next increment of planning tools for the ISPAN Collaborative Information Environment (CIE). Builds on the capabilities and technology developed in Block 1 and Increment 2, to achieve a more complete implementation of the joint operation planning process that includes collaborative campaign/contingency planning and integrated COA development to meet the desired crisis action and time sensitive planning timelines. ***FY 2011 Accomplishments:*** N/A ***FY 2012 Plans:*** N/A ***FY 2013 Plans:*** Funds pre-Milestone B risk reduction activities for the next increment of planning tools for the ISPAN CIE. Builds on the capabilities and technology developed in Block 1 and Increment 2, to achieve a more complete implementation of the joint operation planning process that includes collaborative campaign/contingency planning and integrated COA development to meet the desired crisis action and time sensitive planning timelines.	-	-	7.655
Title: ISPAN Increment 4 Modernization ***Description:*** ISPAN Increment 4 MPAS Modernization provides a more robust strategic war planning capability with a reduced footprint, faster planning timelines, enhanced analysis and plan optimization, and the ability to incorporate new air vehicle capabilities in the future. ISPAN Inc 4 is an evolution of the Block 1 baseline system using proven technologies. ***FY 2011 Accomplishments:***	-	-	10.700

Exhibit R-2A, **RDT&E Project Justification:** PB 2013 Air Force		**DATE:** February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0101313F: *STRAT WAR PLANNING SYS - USSTRATCOM*	**PROJECT** 675059: *Strategic War Planning System (SWPS)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
N/A			
FY 2012 Plans: N/A			
FY 2013 Plans: Funds pre-Milestone B risk reduction activities including studies and analyses to identify the best approach to increase system robustness, enhance plan optimization and improve planning timelines.			
Accomplishments/Planned Programs Subtotals	18.056	10.118	21.155

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• OPAF, PE 0101313F, Strategic War...: -	11.790	13.240	9.197	0.000	9.197	7.863	7.037	7.192	7.289	Continuing	Continuing

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.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM	PROJECT 675059: Strategic War Planning System (SWPS)

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0101313F: *STRAT WAR PLANNING SYS - USSTRATCOM*	**PROJECT** 675059: *Strategic War Planning System (SWPS)*

Schedule Details

Events	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
ISPAN Increment 2 Spiral 1 Delivery	4	2011	4	2011
ISPAN Increment 2 Spiral 2 Delivery	3	2012	3	2012
ISPAN Increment 2 IOC	4	2012	4	2012
ISPAN Increment 2 FOC	4	2013	4	2013
ISPAN Increment 4 PDR	3	2013	3	2013
ISPAN Increment 4 Milestone B	1	2014	1	2014

Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force									DATE: February 2012	

| APPROPRIATION/BUDGET ACTIVITY
3600: *Research, Development, Test & Evaluation, Air Force*
BA 7: *Operational Systems Development* | | | | R-1 ITEM NOMENCLATURE
PE 0101313F: *STRAT WAR PLANNING SYS -*
USSTRATCOM | | | | PROJECT
675282: *Joint Navigation Warfare Center*
(JNWC) | | |

COST ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
675282: *Joint Navigation Warfare Center (JNWC)*	9.102	9.551	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

In FY 2013, 675282, Joint Navigation Warfare Center, efforts transferred to PE 0105921F, Service Support to STRATCOM Space Activities (O&M).

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

Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force		DATE: February 2012
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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 Global Positioning System Reliability Prediction Model (GPS-RPM) 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.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
Title: NAVWAR Ops Support	2.057	2.244	-
Description: NAVWAR Operational Warfighter Support *FY 2011 Accomplishments:* Provided COCOM reachback analysis to develop adversary, threat and intel assessments. *FY 2012 Plans:* Continues COCOM reachback analysis support to develop adversary, threat and intel assessments. *FY 2013 Plans:* N/A			
Title: NAVWAR Test, Training, Exercises and Experiments	3.560	3.662	-
Description: Funds will support Field Tests, NATO trials, U.S. PNT Tests, Exercises and Experiments.			

Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force		DATE: February 2012
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
FY 2011 Accomplishments: Supported FORTUNE and GYPSY Field Tests, NATO trials, U.S. PNT Tests, Exercises and Experiments. *FY 2012 Plans:* Continues support for FORTUNE and GYPSY Field Tests, NATO trials, U.S. PNT Tests, Exercises and Experiments. *FY 2013 Plans:* N/A			
Title: NAVWAR Modeling, Simulation, Tools and Methods *Description:* Funds support the Information Analysis Center (IAC) to develop Global Positioning System Reliability Prediction Model (GPS-RPM) Upgrades, GPS frequency clearance evaluations, modeling and simulation methodologies, standards and analyses. *FY 2011 Accomplishments:* Supported the Information Analysis Center (IAC), developed Global Positioning System Reliability Prediction Model (GPS-RPM) Upgrades, GPS frequency clearance evaluations, modeling and simulation methodologies, standards and analyses. *FY 2012 Plans:* Continues support for the IAC, will develop additional GPS-RPM Upgrades, GPS frequency clearance evaluations, modeling and simulation methodologies, standards and analyses. *FY 2013 Plans:* N/A	3.485	3.645	-
Accomplishments/Planned Programs Subtotals	9.102	9.551	-

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• N/A: *N/A*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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.

UNCLASSIFIED

Exhibit R-2A, **RDT&E Project Justification:** PB 2013 Air Force		**DATE:** February 2012
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E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Air Force		**DATE:** February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0101313F: *STRAT WAR PLANNING SYS - USSTRATCOM*	**PROJECT** 675282: *Joint Navigation Warfare Center (JNWC)*

Exhibit R-4A, **RDT&E Schedule Details:** PB 2013 Air Force		**DATE:** February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0101313F: *STRAT WAR PLANNING SYS - USSTRATCOM*	**PROJECT** 675282: *Joint Navigation Warfare Center (JNWC)*

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Warfighter Operational Support Contract Award	1	2011	1	2011
Warfighter Operational Support Combatant Command Exercise	4	2012	4	2012
FORTUNE Field Test 1	3	2011	3	2011
FORTUNE Field Test 2	2	2012	2	2012
GYPSY HOTEL 2 Field Trial	2	2011	2	2011
GYPSY INDIA Field Test	3	2012	3	2012
NATO Trials Hammer 11 Exercise	4	2011	4	2011
GPS Frequency Clearance Modeling Tool Update Release	4	2011	4	2011
GPS Frequency Clearance Modeling Tool Update Release 2	4	2012	4	2012

Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force		DATE: February 2012

APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0101313F: *STRAT WAR PLANNING SYS -* *USSTRATCOM*	PROJECT 675368: *GSIN (Global Integrated Sensor* *Network)*

COST ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
675368: *GSIN (Global Integrated Sensor Network)*	2.975	3.122	9.734	-	9.734	11.920	7.424	5.735	3.568	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

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.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
Title: GSIN Increments 2 and 3 Common XML Data Schema	2.967	2.848	2.416
Description: Continue to develop a common, XML net-enabled data schema to integrate Missile Warning, Missile Defense Sensor data for DISA Secret and below interoperability. Integrate Space Situational Awareness sensor data into the XML Schema Register data schema and services with appropriate registries/catalogs. Develop configuration control processes and procedures to manage the XML schema and associated XML messaging and services. Begin Development of Sensor Registry Prototype and development of Joint Concept for Data Identification and Migration to Common Standards *FY 2011 Accomplishments:*			

Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0101313F: *STRAT WAR PLANNING SYS - USSTRATCOM*	PROJECT 675368: *GSIN (Global Integrated Sensor Network)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
Developed options and implementation plans for incremental development to mature data exposure capabilities and migrate data to a common, XML net-enabled command capability solution. *FY 2012 Plans:* Continue to develop a common, XML net-enabled data schema to integrate Missile Warning, Missile Defense Sensor data for DISA Secret and below interoperability. Integrate Space Situational Awareness sensor data into the XML Schema Register data schema and services with appropriate registries/catalogs. Develop configuration control processes and procedures to manage the XML schema and associated XML messaging and services. Begin Development of Sensor Registry Prototype and development of Joint Concept for Data Identification and Migration to Common Standards *FY 2013 Plans:* Will continue incremental development of common schema to integrate Space Situational Awareness sensor data; register data schema and services with appropriate registries/catalogs; continue development of Sensor Registry Prototype and Joint concepts for Data Identification and Migration to Common Standards; test and field Increment 2.			
Title: GSIN Visualization and Data Services, Demonstrations and Studies *Description:* Continue to fund development of integrated Missile Warning and Missile Defense visualization and data software services to display data in a common operational picture. Conduct studies and demonstrations of data correlation, launch event characterization and assessment services for risk reduction evaluations. Modifications and enhancements to visualization and data services; Continue studies to include demonstration and evaluation of Resource Broker and Space Situational Awareness capabilities *FY 2011 Accomplishments:* N/A *FY 2012 Plans:* Continue development of integrated Missile Warning and Missile Defense visualization and data software services to display data in a common operational picture. Conduct studies and demonstrations of data correlation, launch event characterization and assessment services for risk reduction evaluations. *FY 2013 Plans:* Will continue modifications and enhancements to visualization and data services; Continue studies to include demonstration and evaluation of Resource Broker and Space Situational Awareness capabilities	-	0.274	0.113
Title: GSIN Increment 1 Missile Defense (MD) Data Exposure Services Mods *Description:* Minor enhancements and modifications to MD data exposure services based on changes to common XML schema	0.008	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0101313F: *STRAT WAR PLANNING SYS - USSTRATCOM*	**PROJECT** 675368: *GSIN (Global Integrated Sensor Network)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
FY 2011 Accomplishments: Completed minor enhancements and modifications to MD data exposure services based on changes to common XML schema			
FY 2012 Plans: N/A			
FY 2013 Plans: N/A			
Title: GSIN Increments 3 and 4, Expose and Integrate Space Situational Awareness (SSA) Data	-	-	7.205
Description: Expose senor data and integrate SSA data from non-traditional sensors (MD/MW/non-DoD) into the Global Information Grid; Develop implementation plans to mature data exposure capabilities			
FY 2011 Accomplishments: N/A			
FY 2012 Plans: N/A			
FY 2013 Plans: Begin exposure of SSA data (Increment 3) and integration of SSA data from non-traditional sensors (MW/MD/non-DoD) into the Global Information Grid (Increment 4); develop implementation plans to mature data exposure capabilities.			
Accomplishments/Planned Programs Subtotals	2.975	3.122	9.734

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• N/A: *N/A*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

D. Acquisition Strategy

GSIN will use existing contract vehicles to manage, develop and modernize the combined Space Situational Awareness/Missile Warning/Missile Defense data exposure architecture and solution. These contract vehicles are already in place and available.

Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0101313F: *STRAT WAR PLANNING SYS - USSTRATCOM*	**PROJECT** 675368: *GSIN (Global Integrated Sensor Network)*

E. Performance Metrics

　　Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0101313F: *STRAT WAR PLANNING SYS - USSTRATCOM*	**PROJECT** 675368: *GSIN (Global Integrated Sensor Network)*

Exhibit R-4A, **RDT&E Schedule Details:** PB 2013 Air Force		**DATE:** February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0101313F: *STRAT WAR PLANNING SYS - USSTRATCOM*	**PROJECT** 675368: *GSIN (Global Integrated Sensor Network)*

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Increment 1 Spiral Delivery	1	2012	1	2012
Increment 1 Capability Fielded	3	2012	2	2013
Increment 2 Spiral Delivery	4	2012	4	2012
Increment 2 Capability Fielded	2	2013	2	2014
Increment 3 contract award	2	2012	2	2012
Increment 3 Spiral Delivery	3	2013	3	2013
Increment 3 Capability Fielded	2	2014	3	2015
Increment 4 contract award	3	2013	3	2013
Increment 4 Spiral Delivery	4	2013	4	2013
Increment 4 Spiral 2 Delivery	3	2014	3	2014
Increment 4 Capability Fielded	2	2015	2	2016
Increment 5 contract award	2	2014	2	2014
Increment 5 Spiral Delivery	4	2014	4	2014
Increment 5 Spiral 2 Delivery	3	2015	3	2015
Increment 5 Capability Fielded	2	2016	1	2017