Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Defense Information Systems Agency	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0303153K: *Defense Spectrum Organization*

COST ($ in Millions)	All Prior Years	FY 2012	FY 2013#	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	89.275	28.124	24.278	7.741	-	7.741	26.309	24.495	21.362	18.351	Continuing	Continuing
JS1: *Joint Spectrum Center*	89.275	28.124	24.278	7.741	-	7.741	26.309	24.495	21.362	18.351	Continuing	Continuing

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

The Defense Spectrum Organization (DSO) provides a full array of electromagnetic spectrum services and capabilities, ranging from short notice on-the-ground operational support at the forward edge, to long range planning in pursuit of national strategic objectives. These services/capabilities are in direct support of Combatant Commanders, the Department of Defense (DoD) Chief Information Officer, Military Services, and Defense Agencies. The DSO is the focal point for electromagnetic spectrum analysis and the development of integrated spectrum plans and strategies to address current and future needs for DoD spectrum access. In addition, DSO serves as DoD's spectrum advocate at national and international forums and conducts extensive outreach to both industry and government. DSO also implements enterprise spectrum management capabilities to enhance spectrum efficiency and agility to improve spectrum-dependent capabilities in support of United States and Coalition operations. This includes acquiring, implementing and sustaining the Global Electromagnetic Spectrum Information System which provides an integrated catalog of joint net-centric spectrum management tools and services. Electromagnetic Spectrum Management enables information dominance through effective spectrum operations.

B. Program Change Summary ($ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	28.908	24.278	17.980	-	17.980
Current President's Budget	28.124	24.278	7.741	-	7.741
Total Adjustments	-0.784	0.000	-10.239	-	-10.239
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustment	-0.784	-	-10.239	-	-10.239

Change Summary Explanation

The FY 2012 decrease of -$0.784 supports higher Agency priorities.

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Defense Information Systems Agency	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0303153K: *Defense Spectrum Organization*

The FY 2014 decrease of -$10.239 is due to delays in: integrating spectrum capabilities within GEMSIS Increment 2, military standard reviews and updates, transitioning emerging technologies to programs of record, and developing requirements for enterprise spectrum capabilities.

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Information Systems Agency			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0303153K: *Defense Spectrum Organization*	PROJECT JS1: *Joint Spectrum Center*	

COST ($ in Millions)	All Prior Years	FY 2012	FY 2013#	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
JS1: *Joint Spectrum Center*	89.275	28.124	24.278	7.741	-	7.741	26.309	24.495	21.362	18.351	Continuing	Continuing
Quantity of RDT&E Articles												

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

The Defense Spectrum Organization (DSO) designs, develops, and maintains Department of Defense (DoD) automated spectrum management systems, evaluation tools, and databases. The DSO databases are the prime sources of information for DoD use of the Electromagnetic (EM) spectrum. The DSO provides technical measurement and analysis in support of DoD spectrum policy decisions to ensure the development, acquisition, and operational deployment of systems are compatible with other spectrum dependent systems operating within the same EM environment. Additional efforts focus on improving future warfighter EM spectrum utilization through technological innovation, and influencing research and development emerging technology efforts.

Improved spectrum support includes the Global Electromagnetic Spectrum Information System (GEMSIS), a net centric capability that will provide commanders with an increased common picture of spectrum situational awareness of friendly and hostile forces while transparently deconflicting competing mission requirements for spectrum use. This capability will enable the transformation from the current preplanned and static assignment strategy into autonomous and adaptive spectrum operations.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
Title: Joint Spectrum Data Repository and Tools (formerly called JSC Data and Data Software)	7.690	8.037	3.257

Description: The Joint Spectrum Data Repository and Tools program supports development of spectrum management tools, spectrum modeling and simulation capabilities, spectrum database development, and spectrum data transformation and standardization. This program provides the Combatant Commands (COCOMs) and Military Services with the spectrum management tools and associated databases to manage spectrum resources at the strategic and operational level. It also provides the DoD acquisition community with analytical tools to conduct Electromagnetic Environmental Effects (E3) analyses and spectrum supportability risk assessments (SSRA).

FY 2012 Accomplishments:

Capabilities were migrated to new hardware and operating environments and the evolved DoD and North Atlantic Treaty Organization (NATO) spectrum data standard was implemented. Additional background environment data sources were added to the Joint Spectrum Data Repository and enhanced monitoring transactions with Military Departments (MILDEPs) systems were implemented. All developed capabilities were documented and tested by users before being deployed at a Defense Enterprise Computing Center (DECC). SPECTRUM XXI Online (SXXIO) v2.1 was enhanced and deployed to spectrum managers in the

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Information Systems Agency		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0303153K: *Defense Spectrum Organization*	PROJECT JS1: *Joint Spectrum Center*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
COCOMs. The initial operational capability (IOC) of the DoD Electromagnetic Environmental Effects (E3) Evaluation and SSRA Tool was developed. This tool provides acquisition program managers with the ability to identify and assess the newly acquired system's potential to affect the performance of existing systems within the operational EME and vice versa. ***FY 2013 Plans:*** Enhance DoD spectrum data sharing services by implementing additional regulatory compliance checks and data quality enhancements and improved workflow for data capture. Develop SXXIO v2.2 to support domestic-based spectrum management operations and deployment and initiate development of SXXIO v2.3 to address additional user-defined requirements and enhancements. Improvements to the spectrum supportability risk assessment tool include user upgrades to the scenario editing capability, "Wizards" to assist novice users with scenario development, and secure remote access by connecting to the Secure Internet Protocol Router Network. The increase of +$0.347 from FY 2012 to FY 2013 is reflects contractor rate adjustments. ***FY 2014 Plans:*** The Joint Spectrum Data Repository (JSDR) will be enhanced by developing and deploying a statistical data quality assessment capability to address all frequency assignment files currently hosted by the DSO. An unclassified but sensitive internet protocol router network (NIPRNet) version of the JSDR will be implemented at a Defense Enterprise Computing Center (DECC). Development of SXXIO v2.3 will be initiated. The automated data sharing capabilities (Stepstone and JDAWS) and the spectrum data exchange standard will be enhanced based on refined requirements generated through the activities of data communities of interest (COIs). Development of SRRAC v2.0 will be initiated. Further improvements to the spectrum supportability risk assessment tool will include additional "Wizards" for novice users, and enabling secure remote access by connecting to the SIPRNET. Development and information assurance activities will enable deploying the Mass Relocation Tool. The net decrease of -$4.780 from FY 2013 to FY 2014 is attributed to reengineering efforts by the COIs to the business process and the associated reduction in the requirements generation.			
Title: DoD Electromagnetic Environmental Effects (E3) Program	2.940	3.234	1.323
Description: The DoD E3 Program supports the Joint Capabilities Integration and Development System (JCIDS) process and the DoD acquisition process to ensure that E3 control and spectrum supportability are incorporated into the development, testing, and procurement of information technology and National Security Systems. The E3 Program also supports the development of the Joint Ordnance E3 Risk Assessment Database (JOERAD) and Hazards of Electromagnetic Radiation to Ordnance (HERO) electromagnetic environmental effects surveys in support of the COCOMs and Joint Task Forces. JOERAD develops algorithms and provides analytical capabilities to perform real-time risk assessments to evaluate platform/system safety and identify equipment limitations in the operational EM environment. JOERAD enables operators to make critical decisions about			

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APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0303153K: *Defense Spectrum Organization*	PROJECT JS1: *Joint Spectrum Center*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
the hazards associated with the use of ordnance within complex EM environments. A SSRA is performed by program managers and materiel developers on all programs that are acquiring or incorporating spectrum-dependent systems or equipment per DoDI 4650.1. These assessments encompass regulatory, technical, and operational spectrum and E3 issues and associated risks. ***FY 2012 Accomplishments:*** Resources were used to develop and test JOERAD 10.0 and develop an improved ordnance safety database. DSO conducted continental US (CONUS) base emitter surveys for ordnance safety database validation. Developed enhanced ordnance radio frequency (RF) safety requirements and conducted approximately 400 critical E3 and spectrum supportability assessments of JCIDS acquisition documents for the Joint Staff. Funds also supported the development of a Joint Guide for SSRAs to ensure consistent, relevant assessments. ***FY 2013 Plans:*** Resources support ordnance susceptibility data collection and quality inspection to be used in ordnance deconfliction and performing forward deployed HERO surveys. Conduct CONUS base emitter surveys for ordnance safety database validation and update the DoD ordnance RF safety requirements. Conduct critical reviews of approximately 400 JCIDS acquisition documents and execute approximately 400 critical research/analysis efforts supporting DoD acquisitions. The increase of +$0.294 from FY 2012 to FY 2013 reflects contractor rate adjustments. ***FY 2014 Plans:*** Will conduct four HERO surveys for forward deployed bases and critical reviews of approximately 400 JCDIS documents supporting DoD acquisistion, research and analysis efforts. Will conduct quality assurance inspections. The decrease of -$1.911 from FY 2013 to FY 2014 is due to delays of military standard reviews and updates.			
Title: Emerging Spectrum Technologies (EST) ***Description:*** DSO has the responsibility to investigate emerging spectrum related technologies and evaluate their applicability to improve future warfighter EM spectrum utilization through technological innovation. The goal of the EST program is to identify the opportunities and risks associated with emerging spectrum-related technologies in the early stages of the technology development, influence and lead technology development in order to maximize DoD spectrum utilization, and ensure that spectrum policies incorporate optimal technology to meet DoD mission requirements. Within EST there is an increased focus on Dynamic Spectrum Access (DSA). DSA is realized through wireless networking architectures and technologies that enable wireless devices to dynamically adapt their spectrum access according to criteria such as policy constraints, spectrum availability, propagation environment, and application performance requirements.	3.966	4.169	1.375

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Information Systems Agency		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0303153K: *Defense Spectrum Organization*	PROJECT JS1: *Joint Spectrum Center*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
FY 2012 Accomplishments: In coordination and collaboration with the MILDEPs and the National Telecommunications and Information Administration (NTIA), initiated development of the revised spectrum certification process for DSA capable systems, including procedures for demonstrating the ability to effectively coexist with legacy systems. Expanded the coordination between the various entities developing tools for spectrum and network management to ensure that capabilities needed to effectively manage DSA enabled systems are available within those tools. ***FY 2013 Plans:*** Identify technology applications and associated transition initiatives to facilitate spectrum sharing in increasingly congested and contested environments and develop requirements for advanced spectrum management-related capabilities to optimize spectrum access through use of ESTs. Evaluate the implications of EST on existing policy and regulatory paradigms and develop recommendations for change to promote the use of emerging technologies to make required changes to those paradigms. The increase of +$0.203 from FY 2012 to FY 2013 is due to an increase in contractor services in the technology monitoring area. ***FY 2014 Plans:*** Efforts will focus on supporting the Defense Enterprise Spectrum Strategy, to include developing enabling concepts, processes, standards, and architectures for the application of DSA and other promising spectrum sharing methods to meet DoD's growing spectrum requirements. The decrease of -$2.790 from FY 2013 to FY 2014 reflects the delay in transitioning emerging technologies to programs of record and the delay in developing enterprise spectrum capabilities to support EST enabled systems.			
Title: Spectrum Data Sharing Capability ***Description:*** The spectrum data enhancement is responsible for developing the long-term data sharing solution to US Central Command's Joint Urgent Operational Need (JUON) 06-53745201-00, Radio Frequency Spectrum Management. This enhancement will provide accurate data for automated Counter Radio Electronic Warfare deconfliction and spectrum inventory calculation; enable automated data capture; automate data access capabilities; provide business process engines of oversight and quality control; and enable interoperability with NATO. ***FY 2012 Accomplishments:*** Contracts were executed for the Spectrum Data Capture tool (Stepstone), the Data Quality Assessments capability, and federation of external data sources. Business process management work flow was planned and coordinated with the Service Spectrum Management Offices to track Stepstone records. A data default Service Interface was developed for Spectrum XXI-Online (SXXIO). Under the Authority Based Access Control (ABAC) effort, a prototype implementation of the spectrum ABAC is being	5.500	3.539	0.000

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APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0303153K: *Defense Spectrum Organization*	PROJECT JS1: *Joint Spectrum Center*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
pursued in coordination with other DISA elements for application to Stepstone and JSDR to augment the current Army Knowledge Online Single Sign On (SSO) method and provide role based access. A prototype ABAC attribute database and maintenance capabilities was developed. All developed capabilities are tested by subject matter users before being hosted at a DECC. ***FY 2013 Plans:*** Improve Stepstone through enhancements to the editor, enhancements to the spectrum supportability workflow management capabilities, and implementing additional regulatory compliance checks and data quality enhancements across all DSO spectrum database products. The JSC Data Access Web Server (JDAWS) tool is implementing enhanced query capabilities, as well as leveraging additional DoD and Federal spectrum database sources. The DoD and NATO spectrum data standard continues to evolve, adding new spectrum data sharing elements of interest to the EW and intelligence communities. The decrease of -$1.961 from FY 2012 to FY 2013 is due to a planned decrease in development requirements ***FY 2014 Plans:*** The Spectrum Data Sharing Capability project ends in FY 2013 and there are no requirements for FY 2014. The decrease of -$3.539 from FY 2013 to FY 2014 is due to planned completion of this specific project.			
Title: Global Electromagnetic Spectrum Information System (GEMSIS) ***Description:*** The Global Electromagnetic Spectrum Information System (GEMSIS) is a net centric capability that will provide operational commanders with an increased common picture of spectrum situational awareness of friendly and hostile forces while transparently deconflicting competing mission requirements for spectrum use. This capability will enable the transformation from the current preplanned and static assignment strategy into autonomous and adaptive spectrum operations. ***FY 2012 Accomplishments:*** Funds for Increment 2 Block 1 identified capabilities to provide an initial Integrated Spectrum Desktop, a net-centric spectrum management capability and access to the JSDR. ***FY 2013 Plans:*** Increment 2 implements capabilities which include an improved Integrated Spectrum Desktop, enhanced frequency assignment and spectrum management tools, and access to web services from the Afloat Electromagnetic Spectrum Operations Program (ASEOP).	7.528	5.299	1.786

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Information Systems Agency		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0303153K: *Defense Spectrum Organization*	PROJECT JS1: *Joint Spectrum Center*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
The decrease of -$2.229 from FY 2012 to FY 2013 is due to completing initial integration efforts tying functional capabilities into the Integrated Spectrum Desktop and the delay in Army transition of Coalition Joint Spectrum Management Planning Tool to GEMSIS. ***FY 2014 Plans:*** Increment 2 will implement and deploy the Integrated Spectrum Desktop V2.0 enhanced capabilities with integration of improved frequency assignment and spectrum management tools and web services from JSDR, SXXIO, and the ASEOP. The decrease of -$3.513 from FY 2013 to FY 2014 is due to delays in finalizing contract support during FY 2013 which will in-turn delay implementing spectrum capabilities within GEMSIS Increment 2 in FY 2014.			
Title: Spectrum Common Operating Picture (SCOP) ***Description:*** Spectrum Common Operating Picture (SCOP) will provide an automated end-to-end capability to pull together all of the spectrum and other related data sets currently used to support spectrum planning and operations, and layer this data to provide a clear visualization of the spectrum environment, similar to how a Geographic Information System (GIS) layers geospatial and related data. There is no comprehensive automated tool or service available today that allows decision makers to set priorities with the benefit of a common display of timely and relevant spectrum information. The capability will provide operational and tactical planners and commanders in the field with a comprehensive layered picture of spectrum use through a Service Oriented Architecture-based web service tied to a GIS driven by robust, accurate information. ***FY 2012 Accomplishments:*** Deployed the IOC version of SCOP to DoD's spectrum operational community. The decrease of -$0.500 from FY 2012 to FY 2013 is due to completing the SCOP IOC.	0.500	0.000	0.000
Accomplishments/Planned Programs Subtotals	28.124	24.278	7.741

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• O&M, DW/PE 0303153K: *O&M, DW*	41.579	42.879	44.457		44.457	45.299	45.859	42.607		Continuing	Continuing

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Information Systems Agency		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0303153K: *Defense Spectrum Organization*	PROJECT JS1: *Joint Spectrum Center*

D. Acquisition Strategy

Engineering support services are provided by the use of a contract. No in-house government capability exists, nor is it practical to develop one that can provide the expertise necessary to fulfill the mission and responsibilities of DSO. Full and open competition was used for the current contract with ITT Industries, Inc. GEMSIS' acquisition approach is to obtain capabilities by adopting existing capabilities, buying commercial products, or developing new capabilities by delivering incrementally within the context of a streamlined and adaptive acquisition approach.

E. Performance Metrics

1. Formal Earned Value Measurement System (EVMS) measures will be applied to large software development efforts
2. 100% On-time software version releases – met goal in FY 2012
3. 95% Software development PCRs closed on schedule – exceeded goal in FY 2012
4. 100% On-time deployments to users – met goal in FY 2012
5. 90% Percent Spectrum Data System Availability – exceeded goal in FY 2012

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Defense Information Systems Agency		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0303153K: *Defense Spectrum Organization*	PROJECT JS1: *Joint Spectrum Center*

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Technical Engineering Services 1	C/CPIF	ITT Industries, Inc:Bowie, MD	80.068	26.818	Oct 2011	22.525	Oct 2012	5.988	Oct 2013	-		5.988	Continuing	Continuing	Continuing
Technical Engineering Services 2	MIPR	Various:Various	2.505	0.345	Oct 2011	0.355	Oct 2012	0.355	Oct 2013	-		0.355	Continuing	Continuing	Continuing
		Subtotal	82.573	27.163		22.880		6.343		0.000		6.343			

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test & Evaluation	MIPR	JTIC:Ft. Huachuca	1.212	0.300	Oct 2011	0.400	Oct 2012	0.400	Oct 2013	-		0.400	Continuing	Continuing	Continuing
		Subtotal	1.212	0.300		0.400		0.400		0.000		0.400			

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Management Services	FFRDC	MITRE:Ft. Monmouth, NJ	5.490	0.661	Nov 2011	0.998	Oct 2012	0.998	Oct 2013	-		0.998	Continuing	Continuing	Continuing
		Subtotal	5.490	0.661		0.998		0.998		0.000		0.998			

	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	89.275	28.124		24.278		7.741		0.000		7.741			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Defense Information Systems Agency		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0303153K: *Defense Spectrum Organization*	PROJECT JS1: *Joint Spectrum Center*

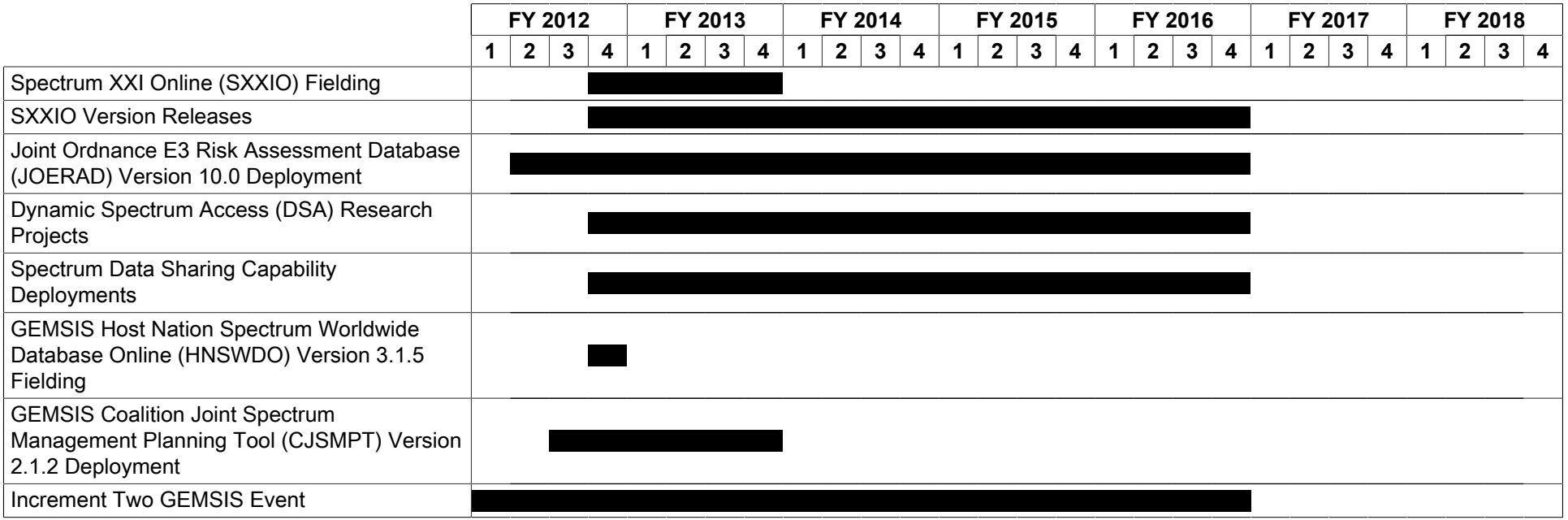

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Defense Information Systems Agency		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0303153K: *Defense Spectrum Organization*	PROJECT JS1: *Joint Spectrum Center*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Spectrum XXI Online (SXXIO) Fielding	4	2012	4	2013
SXXIO Version Releases	4	2012	4	2016
Joint Ordnance E3 Risk Assessment Database (JOERAD) Version 10.0 Deployment	2	2012	4	2016
Dynamic Spectrum Access (DSA) Research Projects	4	2012	4	2016
Spectrum Data Sharing Capability Deployments	4	2012	4	2016
GEMSIS Host Nation Spectrum Worldwide Database Online (HNSWDO) Version 3.1.5 Fielding	4	2012	4	2012
GEMSIS Coalition Joint Spectrum Management Planning Tool (CJSMPT) Version 2.1.2 Deployment	3	2012	4	2013
Increment Two GEMSIS Event	1	2012	4	2016