Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Defense Information Systems Agency	Date: March 2014
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0303153K / *Defense Spectrum Organization*

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	117.399	13.209	7.681	13.423	-	13.423	21.412	18.022	13.044	13.367	Continuing	Continuing
JS1: *Joint Spectrum Center*	117.399	13.209	7.681	13.423	-	13.423	21.412	18.022	13.044	13.367	Continuing	Continuing

The FY 2015 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 (GEMSIS) 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 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	24.278	7.741	26.309	-	26.309
Current President's Budget	13.209	7.681	13.423	-	13.423
Total Adjustments	-11.069	-0.060	-12.886	-	-12.886
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustment	-11.069	-0.060	-12.886	-	-12.886

Change Summary Explanation

The FY 2013 decrease of -$11.069 was due to Budget Control Act (BCA) reductions which caused efforts to improve spectrum data quality and completeness to be reduced.

The FY 2014 decrease of -$0.060 is due to contract efficiency reductions realized within developing enterprise spectrum capabilities.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Defense Information Systems Agency	Date: March 2014
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0303153K *I Defense Spectrum Organization*

The FY 2015 decrease of -$12.886 will result in delays in integrating spectrum capabilities within GEMSIS, military standard reviews and updates, transitioning emerging technologies to programs of record, and developing enterprise spectrum capabilities.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Defense Information Systems Agency			Date: March 2014
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303153K / *Defense Spectrum Organization*	Project (Number/Name) JS1 / *Joint Spectrum Center*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
JS1: *Joint Spectrum Center*	117.399	13.209	7.681	13.423	-	13.423	21.412	18.022	13.044	13.367	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Joint Spectrum Center (JSC), which is a division of DSO, designs, develops, and maintains Department of Defense (DoD) automated spectrum management systems, evaluation tools, and databases. The databases are the prime sources of information for DoD use of the Electromagnetic (EM) spectrum. The JSC 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 2013	FY 2014	FY 2015
Title: Joint Spectrum Data Repository and Tools	2.148	3.257	6.974
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 2013 Accomplishments: Enhanced DoD spectrum data sharing services by implementing additional regulatory compliance checks and data quality enhancements and improved workflow for data capture. Developed Spectrum XXI Online (SXXIO) v2.2 to support domestic-based spectrum management operations and deployment and initiated development of SXXIO v2.3 to address additional user-defined requirements and enhancements. Improvements to the spectrum supportability risk assessment tool included user upgrades			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Defense Information Systems Agency		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303153K / *Defense Spectrum Organization*	**Project (Number/Name)** JS1 / *Joint Spectrum Center*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
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 (SIPRNet). ***FY 2014 Plans:*** Enhance the Joint Spectrum Data Repository (JSDR) by developing and deploying a statistical data quality assessment capability to address all frequency assignment files currently hosted by the DSO. Implement an unclassified but sensitive internet protocol router network (NIPRNet) version of the JSDR at a Defense Enterprise Computing Center (DECC). Initiate development of SXXIO v2.3. Enhance the automated data sharing capabilities (Stepstone and Joint Data Access Web Server (JDAWS)) and the spectrum data exchange standard based on refined requirements generated through the activities of data Communities Of Interest (COIs). Initiate development of Spectrum Relocation/Requirements Analysis Capability (SRRAC) v2.0. Improvements to the spectrum supportability risk assessment tool include additional "Wizards" for novice users, and enabling secure remote access by connecting to the SIPRNet. Development and information assurance activities enable deploying the Mass Relocation Tool. The increase of +$1.109 from FY 2013 to FY 2014 is attributed to features being added to Spectrum XXI Online (SXXIO) and to maintain synchronicity with the National Telecommunications & Information Administration's (NTIA) Federal Support Management System. ***FY 2015 Plans:*** Will focus on fielding SXXIO Full Operational Capability (FOC), hosting of SRRAC v2.0 and the spectrum supportability risk assessment tool on SIPRNet, and further developing capabilities to support situational awareness of spectrum use at the strategic and joint operational level to include coordination and integration with evolving Joint Electromagnetic Spectrum Operations (JEMSO) capabilities. DSO will deploy the enhanced JSDR Initial Operational Capability (IOC) at a DISA Enterprise Service Center (ESC). This new version of the JSDR software will implement a new data exchange format, data quality assessment capability, Universal query and Federated data capabilities, as well as a cross domain solution for data exchange with external DSO customers. Will focus on fielding SXXIO Full Operational Capability (FOC), hosting of SRRAC v2.0 and the spectrum supportability risk assessment tool on SIPRNet, and further developing capabilities to support situational awareness of spectrum use at the strategic and joint operational level to include coordination and integration with evolving Joint Electromagnetic Spectrum Operations (JEMSO) capabilities. DSO will deploy the enhanced JSDR Initial Operational Capability (IOC) at a DISA Enterprise Service Center (ESC). This new version of the JSDR software will implement a new data exchange format, data quality assessment capability, Universal query and Federated data capabilities, as well as a cross domain solution for data exchange with external DSO customers.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Defense Information Systems Agency		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303153K / *Defense Spectrum Organization*	**Project (Number/Name)** JS1 / *Joint Spectrum Center*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
The increase of +$3.717 from FY 2014 to FY 2015 will allow deployment of a NIPRNet instance of the JSDR including development and fielding of a cross domain solution for the new spectrum data standard. This increase will enable continued development of SXXIO features through FY2015 that will support the full range of spectrum assignment and coordination processes, and support the eventual sunset of legacy SXXI. The increase will also enable SRRAC v2.0 to be hosted on SIPRNet.			
Title: DoD Electromagnetic Environmental Effects (E3) Program	2.919	1.323	1.397
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 Electromagnetic (EM) environment. JOERAD enables operators to make critical decisions about 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 encompassed regulatory, technical, and operational spectrum and E3 issues and associated risks. ***FY 2013 Accomplishments:*** Resources supported ordnance susceptibility data collection and quality inspection to be used in ordnance deconfliction and performing forward deployed HERO surveys. Conducted CONUS base emitter surveys for ordnance safety database validation and updated the DoD ordnance radio frequency (RF) safety requirements. Conducted critical reviews of approximately 400 JCIDS acquisition documents and executed approximately 400 critical research/analysis efforts supporting DoD acquisitions. ***FY 2014 Plans:*** Conduct four HERO surveys for forward deployed bases and critical reviews of approximately 400 JCIDS documents supporting DoD acquisition, research and analysis efforts. Conduct quality assurance inspections. The decrease of -$1.596 from FY 2013 to FY 2014 is due to delays of military standard reviews and updates. ***FY 2015 Plans:*** Future planned efforts will initiate conversion of the JOERAD to a web-based capability. Will conduct Joint Ordnance Commanders Group (JOCG) HERO Subgroup meetings and support the JOCG Executive Committee. Will develop ordnance susceptibility data records and perform quality data inspections for use in ordnance deconfliction. Will conduct up to eight forward HERO surveys for the COCOMs/Services. Will conduct CONUS base emitter surveys for ordnance safety database			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Defense Information Systems Agency		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303153K / *Defense Spectrum Organization*	**Project (Number/Name)** JS1 / *Joint Spectrum Center*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
validation and update the DoD ordnance radio frequency (RF) safety requirements. Will update MIL-HDBK-235 Electromagnetic Environment (EME) Profiles to address blue force jammer environment. Will continue to implement the DoD E3 Program on behalf of OSD in support of system acquisitions. Will review approximately 400 JCIDS and Information Support Plan (ISP) documents assigned by the Joint Staff and DoD CIO. The increase of +$0.074 from FY 2014 to FY 2015 will enable the JOCG HERO Subgroup meetings to be conducted and fully support the JOCG Executive Committee, develop additional ordnance susceptibility data records, and perform quality data inspection for use in ordnance deconfliction. In addition, will provide spectrum and E3 training modules for DAU program management and systems engineering curriculum and fully support the JCIDS acquisition process.			
Title: Emerging Spectrum Technologies (EST)	3.401	1.315	1.596
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. ***FY 2013 Accomplishments:*** Identified technology applications and associated transition initiatives to facilitate spectrum sharing in increasingly congested and contested environments and developed requirements for advanced spectrum management-related capabilities to optimize spectrum access through use of ESTs. Evaluated the implications of EST on existing policy and regulatory paradigms and developed recommendations for change to promote the use of emerging technologies to make required changes to those paradigms. ***FY 2014 Plans:*** Efforts focus on supporting the Defense Enterprise Spectrum Strategy, to include develop enabling concepts, processes, standards, and architectures for the application of DSA and other promising spectrum sharing methods to meet DoD's growing spectrum requirements.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Defense Information Systems Agency		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303153K / *Defense Spectrum Organization*	**Project (Number/Name)** JS1 / *Joint Spectrum Center*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
The decrease of -$2.086 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. ***FY 2015 Plans:*** Efforts will focus on maturing the enabling concepts, processes, standards, and architectures for the application of DSA and other promising sharing methods to meet DoD's growing spectrum requirements. Coordination and collaboration with operational, policy/regulatory, and technology oriented stakeholders will be conducted. The increase of +$0.281 from FY 2014 to FY 2015 will enable initial efforts to plan for and coordinate a concept demonstration of spectrum sharing capabilities with stakeholders. This will be accomplished through the application of DSA.			
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 North Atlantic Treaty Organization (NATO). ***FY 2013 Accomplishments:*** Improved 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 implemented enhanced query capabilities, as well as leveraged additional DoD and Federal spectrum database sources. The DoD and NATO spectrum data standard continued to evolve, adding new spectrum data sharing elements of interest to the EW and intelligence communities. ***FY 2014 Plans:*** The Spectrum Data Sharing Capability project ends in FY 2013 and there are no requirements for FY 2014. The decrease of -$0.962 from FY 2013 to FY 2014 is due to planned completion of this specific project.	0.962	-	-
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.	3.779	1.786	3.456

Exhibit R-2A, RDT&E Project Justification: PB 2015 Defense Information Systems Agency		Date: March 2014
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
FY 2013 Accomplishments: Increment two implemented capabilities which included an improved Integrated Spectrum Desktop, enhanced frequency assignment and spectrum management tools, and access to web services from the Afloat Electromagnetic Spectrum Operations Program (AESOP). ***FY 2014 Plans:*** Increment two implements and deploys 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 AESOP. The decrease of -$1.993 from FY 2013 to FY 2014 is due to decreased contractor support for FY2014. ***FY 2015 Plans:*** Will improve/enhance user interface and deliver the Spectrum dashboard to enable quick access to information and capabilities. Integration efforts will include implementation of SXXIO v2.3, Stepstone v2.1, JSDR and other services. The increase of +$1.670 from FY 2014 to FY 2015 will enable further development of user interfaces and the Spectrum dashboard.			
Accomplishments/Planned Programs Subtotals	13.209	7.681	13.423

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• O&M, DW/PE 0303153K: *O&M, DW*	38.071	37.133	35.192	-	35.192	35.366	35.461	38.517	37.881	Continuing	Continuing

Remarks

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 EXELIS, 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

Exhibit R-2A, RDT&E Project Justification: PB 2015 Defense Information Systems Agency		Date: March 2014
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2. 100% On-time software version releases – met goal in FY 2013
3. 95% Software development PCRs closed on schedule – exceeded goal in FY 2013
4. 100% On-time deployments to users – met goal in FY 2013
5. 90% Percent Spectrum Data System Availability – exceeded goal in FY 2013

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Defense Information Systems Agency			Date: March 2014
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Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Technical Engineering Services 1	C/CPIF	EXELIS, Inc. : Herndon, VA	106.886	11.456	Oct 2012	5.928	Oct 2013	12.070	Oct 2014	-		12.070	Continuing	Continuing	Continuing
Technical Engineering Services 2	MIPR	Various : Various	2.850	0.355	Oct 2012	0.355	Oct 2013	0.355	Oct 2014	-		0.355	Continuing	Continuing	Continuing
		Subtotal	109.736	11.811		6.283		12.425		-		12.425	-	-	-

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test & Evaluation	MIPR	JTIC : Ft. Huachuca	1.512	0.400	Oct 2012	0.400	Oct 2013	-		-		-	-	2.312	2.312
		Subtotal	1.512	0.400		0.400		-		-		-	-	2.312	2.312

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Management Services	FFRDC	MITRE : Ft. Monmouth, NJ	6.151	0.998	Oct 2012	0.998	Oct 2013	0.998	Oct 2014	-		0.998	Continuing	Continuing	Continuing
		Subtotal	6.151	0.998		0.998		0.998		-		0.998	-	-	-

	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	117.399	13.209		7.681		13.423		-		13.423	-	-	-

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Defense Information Systems Agency		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303153K / *Defense Spectrum Organization*	**Project (Number/Name)** JS1 / *Joint Spectrum Center*

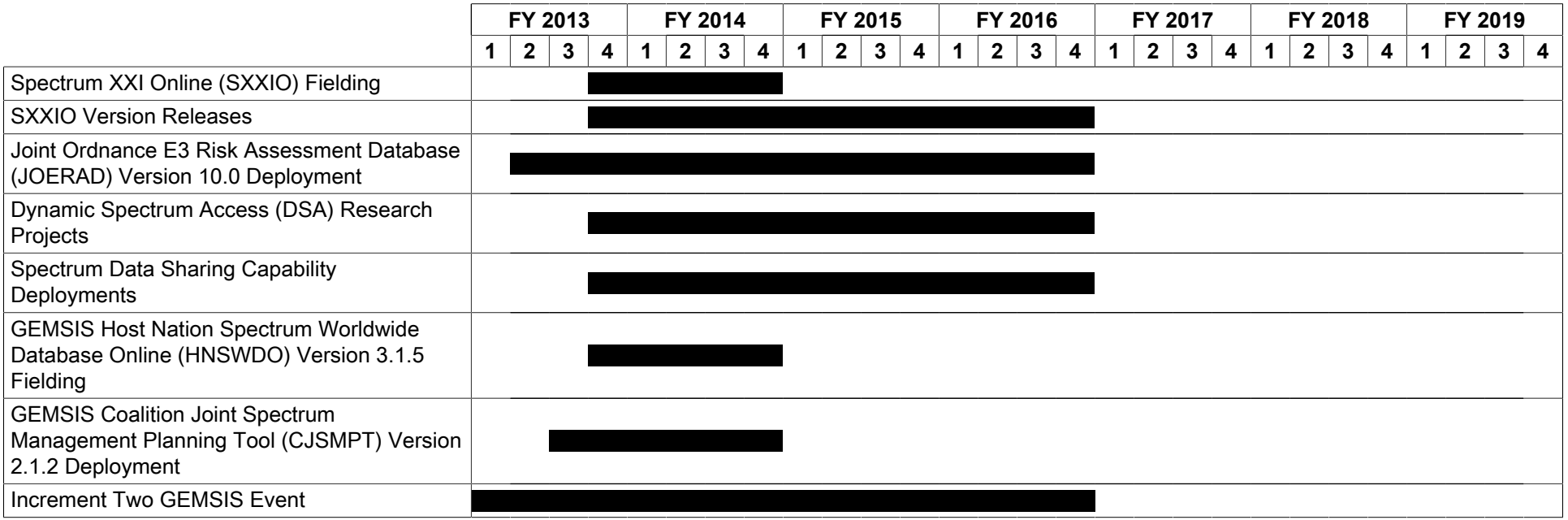

Exhibit R-4A, RDT&E Schedule Details: PB 2015 Defense Information Systems Agency		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303153K / *Defense Spectrum Organization*	**Project (Number/Name)** JS1 / *Joint Spectrum Center*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Spectrum XXI Online (SXXIO) Fielding	4	2013	4	2014
SXXIO Version Releases	4	2013	4	2016
Joint Ordnance E3 Risk Assessment Database (JOERAD) Version 10.0 Deployment	2	2013	4	2016
Dynamic Spectrum Access (DSA) Research Projects	4	2013	4	2016
Spectrum Data Sharing Capability Deployments	4	2013	4	2016
GEMSIS Host Nation Spectrum Worldwide Database Online (HNSWDO) Version 3.1.5 Fielding	4	2013	4	2014
GEMSIS Coalition Joint Spectrum Management Planning Tool (CJSMPT) Version 2.1.2 Deployment	3	2013	4	2014
Increment Two GEMSIS Event	1	2013	4	2016