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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604426F I Space Fence							
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	0.000	-	-	214.131	-	214.131	291.530	169.997	50.671	5.361	-	731.690
65A009: Space Fence	0.000	-	-	214.131	-	214.131	291.530	169.997	50.671	5.361	-	731.690
Quantity of RDT&E Articles	-	-	-	-	-	-	-	1.000	-	-		
MDAP/MAIS Code: 438												
# The FY 2015 OCO Request will be submitted at a later date.												
Note												
In 2015, Project 65A009, Space Fence efforts were transistioned from PE 0604425F - Space Situational Awareness Systems, Project 65A009 in order to improve transparency for ACAT I acquisition programs.												
A. Mission Description and Budget Item Justification												
The Space Fence effort will develop a system of ground-based sensors to improve upon the former Air Force Space Surveillance System (AFSSS), a Very High Frequency (VHF) radar operational from 1961 to 2013. The Space Fence will provide a more accurate and timely detection capability of smaller orbiting objects, primarily in low-earth orbit (LEO). The system will use higher frequency S-band radars at globally dispersed sites. As a result, it will greatly expand the uncued detection and tracking capacity of the Space Surveillance Network, from around 20,000 to up to 100,000+ objects, while working in concert with other network sensors. Requirements are identified in the June 2012 approved Space Fence Capabilities Development Document.												
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full-rate production.												
B. Program Change Summary (\$ in Millions)				FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total				
Previous President's Budget				-	-	-	-	-				
Current President's Budget				-	-	214.131	-	214.131				
Total Adjustments				-	-	214.131	-	214.131				
• Congressional General Reductions				-	-							
• Congressional Directed Reductions				-	-							
• Congressional Rescissions				-	-							
• Congressional Adds				-	-							
• Congressional Directed Transfers				-	-							
• Reprogrammings				-	-							
• SBIR/STTR Transfer				-	-							
• Other Adjustments				-	-	214.131	-	214.131				

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Change Summary Explanation FY15: Program transistioned from PE 0604425F - SSA Systems, project 65A009 in order to improve transparancy for ACAT I acquisition programs.												
C. Accomplishments/Planned Programs (\$ in Millions)										FY 2013	FY 2014	FY 2015
Title: Space Fence										-	-	214.131
Description: Develops S-band SSA radar system to provide detection and tracking capability of objects in Low Earth Orbit.												
FY 2013 Accomplishments: FY13 Funds were executed in PE 0604425F Space Situational Awareness Systems.												
FY 2014 Plans: FY14 Funds were executed in PE 0604425F Space Situational Awareness Systems.												
FY 2015 Plans: Will continue EMD, Production and Deployment activities. This includes the continued construction of Site 1 facilities; continued manufacturing and integration of radar components and assemblies; and the further development and integration of the Space Fence Operations Center (SOC) and Site 1 Radar hardware and software. SOC facility preparation will also begin.												
Accomplishments/Planned Programs Subtotals										-	-	214.131
D. 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	
• OPAF: BA03: Line Item # 836830: Space Fence	-	-	-	-	-	-	-	-	47.000	63.800	110.800	
• RDTE: BA05: PE 0604425F: Space Situation Awareness Systems	204.062	294.624	-	-	-	-	-	-	-	-	-	
Remarks												
E. Acquisition Strategy												
Lockheed Martin and Raytheon successfully completed contracts for development through a Preliminary Design Review. In FY13, a full and open competition was conducted and Milestone B for Increment 1 was held and is pending 2366b certification and ADM approval. A single Engineering, Manufacturing, and Development (EMD), Production and Deployment contract will be awarded in FY14. The contract will take a single contractor through Critical Design Review (CDR), fabrication, integration, test, production and deployment, with up to two years of Interim Contractor Support (ICS). The program will utilize a two increment approach. Increment 1/Initial Operational Capability (IOC) will consist of successful operations at the first radar site located in the Kwajalein Atoll and the Space Fence Operations Center												

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(SOC) at a CONUS location. Increment 2 will include completion of the second radar at a location which is to be determined pending negotiations with the proposed host nation.		
<u>F. Performance Metrics</u> 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.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Air Force													Date: March 2014		
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604426F / <i>Space Fence</i>				Project (Number/Name) 65A009 / <i>Space Fence</i>					
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
System Development	C/FPIF	TBD : TBD,	0.000	-		-		201.910	Oct 2014	-		201.910	478.090	680.000	-
Subtotal			0.000	-		-		201.910		-		201.910	478.090	680.000	-
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Various (Independent Program Assessment, site survey, travel, software, SATAF)	Various	Various : Various,	0.000	-		-		0.479	Oct 2014	-		0.479	1.483	1.962	3.219
Design Oversight and Management (Software Engineering Institute)	SS/FP	Carnegie Mellon : Pittsburgh, PA	0.000	-		-		0.478	Nov 2014	-		0.478	-	0.478	1.191
Design Oversight and Management (MITRE)	SS/FP	MITRE Corp : Bedford, MA	0.000	-		-		2.899	Oct 2014	-		2.899	11.237	14.136	31.584
Design Oversight and Management (MIT/LL)	SS/FP	MIT Lincoln Laboratory : Lexington, MA	0.000	-		-		1.438	Nov 2014	-		1.438	5.789	7.227	23.187
Subtotal			0.000	-		-		5.294		-		5.294	18.509	23.803	59.181
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test - 46th Test Group	PO	46th Test Group : Eglin AFB, FL	0.000	-		-		1.918	Jan 2015	-		1.918	3.127	5.045	6.980
Test - Joint Interoperability Test Command	MIPR	Joint Interoperability Test Command : Fort Huachuca, AZ	0.000	-		-		0.023	Jan 2015	-		0.023	0.370	0.393	0.464
Subtotal			0.000	-		-		1.941		-		1.941	3.497	5.438	7.444

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Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Office Support (Infrastructure) (PMA)	Various	Various : Various,	0.000	-		-		2.000	Oct 2014	-		2.000	5.122	7.122	26.074
Program Office Support, Technical Studies and Analysis, Systems Engineering and Integration Management (PMA)	Various	Various : Various,	0.000	-		-		0.596	Oct 2014	-		0.596	1.859	2.455	9.067
Development Review and Management (Odyssey) (PMA)	C/CPIF	Odyssey Systems : Wakefield, MA	0.000	-		-		1.188	Dec 2014	-		1.188	4.944	6.132	13.208
Development Review and Management (Jacobs) (PMA)	C/CPFF	Jacobs Technology : Tullehoma, TN	0.000	-		-		1.202	Dec 2014	-		1.202	5.538	6.740	17.009
Subtotal			0.000	-		-		4.986		-		4.986	17.463	22.449	65.358
			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			0.000	-		-		214.131		-		214.131	517.559	731.690	-
Remarks Prior to FY15 all funds were executed and reported in PE 0604225F (Space Situational Awareness Systems)															

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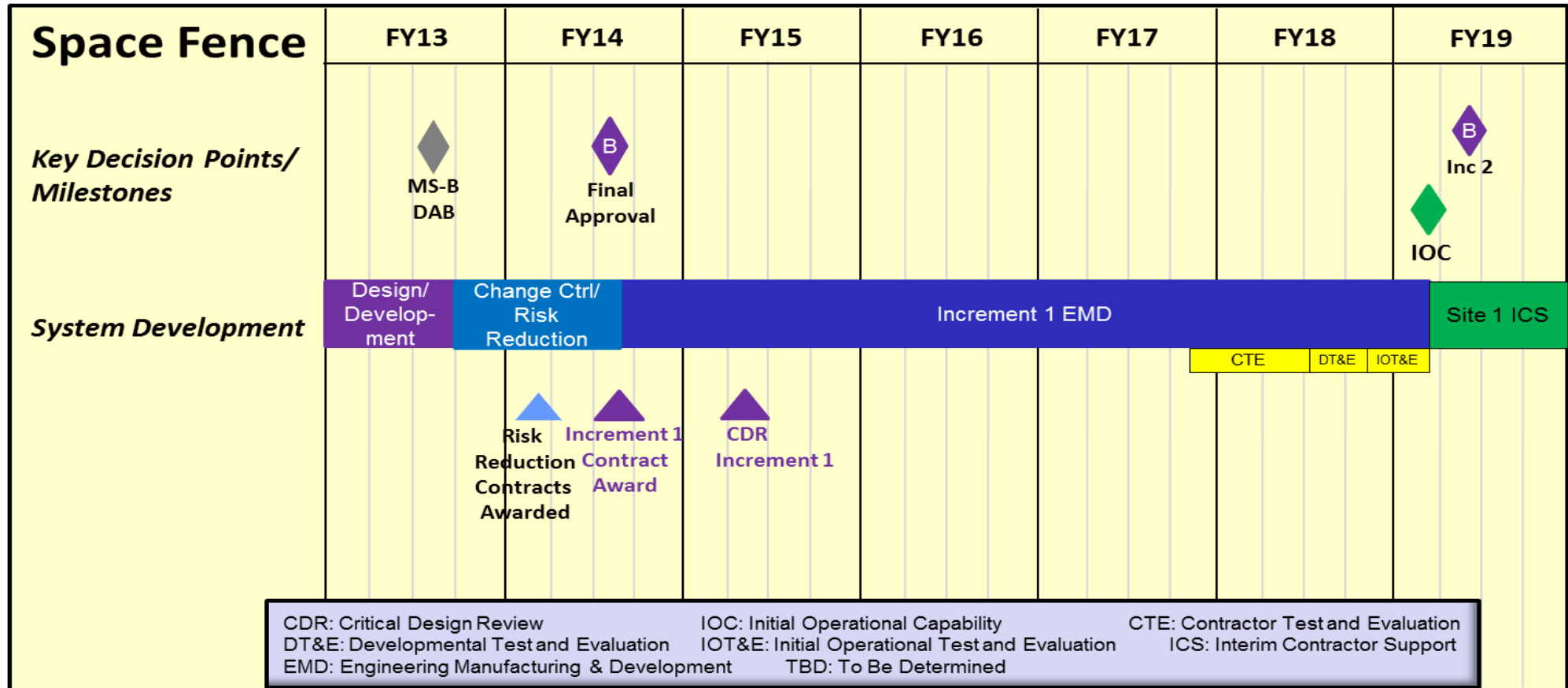
Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force

Date: March 2014

Appropriation/Budget Activity
3600 / 5

R-1 Program Element (Number/Name)
PE 0604426F / Space Fence

Project (Number/Name)
65A009 / Space Fence



 Concept activities
 Production/fielding

 Design/development
 Operations/Interim Contractor Support

 Integration/test
  Key events

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Air Force			Date: March 2014
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604426F / <i>Space Fence</i>	Project (Number/Name) 65A009 / <i>Space Fence</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Milestone B Increment 1	3	2013	3	2014
Contract Award Increment 1	3	2014	3	2014
Critical Design Review (CDR) Increment 1	2	2015	2	2015
Initial Operational Capability (IOC) Increment 1	1	2019	1	2019
Milestone B Increment 2	2	2019	2	2019