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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0305145F / <i>Arms Control Implementation</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	13.222	9.137	4.844	0.000	4.844	0.000	0.000	0.000	0.000	0.000	27.203
675063: <i>Digital Visual Imaging System (DVIS)</i>	-	13.222	9.137	4.844	0.000	4.844	0.000	0.000	0.000	0.000	0.000	27.203
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The OC-135B aircraft supports the implementation of the United States Government (USG) Open Skies Treaty. This program addresses the requirements in the Presidential Policy Directive-15 (PPD-15). The Open Skies Treaty allows signatories to conduct observation flights over each other's territory using fixed-wing, unarmed observation aircraft. The aircraft can use optical cameras, video cameras, sideways-looking synthetic aperture radar, and infrared line scanning devices. There are 34 participating states to the Open Skies Treaty. The Air Force is required to allow over flight of USAF bases per multilateral request; to acquire, operate, and maintain the aircraft and equipment utilized during over flights of partner countries; to provide required sensor media and initial media processing; and to provide airfield servicing, logistics, and maintenance for foreign over flights of the US.

Open Skies Sensors - Mission equipment on the OC-135B includes wet film optical framing and panoramic cameras. Open Skies Sensors program addresses the requirements in the Presidential Policy Directive-15 (PPD-15), which states, "The United States shall begin budgeting no later than FY14 to upgrade the sensors on the current aircraft by replacing film-based cameras with available electro-optical sensors. (U)" Additionally, current cameras are nearly obsolete, unreliable, hard and increasingly expensive to maintain, and repair parts must be individually manufactured. In addition, the web film manufacturers are discontinuing production of the film stock. Furthermore, the ultimate imagery product customer desires digital format products. This camera replacement program will replace the wet film cameras with modern, digital cameras. Modern, digital cameras will be more reliable, maintainable and cost effective. The customer will be able to more readily use the imagery products. Equipment service life will be extended significantly.

Test articles will be procured for the purpose of developmental testing and to support Treaty certification of the sensors.

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.

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B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	13.222	12.137	4.892	0.000	4.892
Current President's Budget	13.222	9.137	4.844	0.000	4.844
Total Adjustments	0.000	-3.000	-0.048	0.000	-0.048
• Congressional General Reductions	0.000	-3.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	-0.048	0.000	-0.048

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
Title: OC-135 Open Skies Sensors	13.222	9.137	4.844
Description: Replace existing Open Skies aircraft wet film sensors with digital sensors.			
FY 2015 Accomplishments: Conduct research supporting design and intergration of the new digital cameras.			
FY 2016 Plans: Procure and install (quantity of 1) RDT&E article as prototype sensor system.			
FY 2017 Plans: Test and Treaty Certify prototype sensor system.			
Accomplishments/Planned Programs Subtotals	13.222	9.137	4.844

D. Other Program Funding Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
• APAF:BA05: Line Item #1900: <i>Digital Visual Imaging System (DVIS)</i>	0.000	0.000	0.000	0.000	0.000	15.079	0.893	5.162	5.257	0.000	26.391

Remarks

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E. Acquisition Strategy The acquisition strategy is to acquire, develop, test, purchase, and install DVIS update the Open Skies Medial Processing Facility (OSMPF) through full and open competition. The contracting strategy is for a single integrator through development, test, production, and installation.		
F. 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.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force												Date: February 2016			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
3600 / 7				PE 0305145F / Arms Control Implementation				675063 / Digital Visual Imaging System (DVIS)							
Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Open Skies Sensors Engineering, Development and Prototype Subtotal Product Development	C/FFP	Various : Various	-	12.288	Feb 2016	8.148	May 2016	1.952	Apr 2017	0.000		1.952	Continuing	Continuing	22.388
Subtotal			-	12.288		8.148		1.952		0.000		1.952	-	-	22.388
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Sub Total Support	Various	Various : Various	-	0.900	Aug 2015	0.500	Aug 2016	0.734	Aug 2017	0.000		0.734	Continuing	Continuing	3.545
Subtotal			-	0.900		0.500		0.734		0.000		0.734	-	-	3.545
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Open Skies Sensor development ground and flight testing for imagery collection	PO	Various : Various	-	0.000		0.440	Apr 2016	2.108	Apr 2017	0.000		2.108	Continuing	Continuing	2.548
Subtotal			-	0.000		0.440		2.108		0.000		2.108	-	-	2.548
Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Open Skies Sensors PMA SubTotal Management Services	Various	Various : Various	-	0.034	Sep 2015	0.049	Sep 2016	0.050	Sep 2017	0.000		0.050	Continuing	Continuing	0.152
Subtotal			-	0.034		0.049		0.050		0.000		0.050	-	-	0.152

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0305145F / <i>Arms Control Implementation</i>	Project (Number/Name) 675063 / <i>Digital Visual Imaging System (DVIS)</i>

	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Milestone B					■																							
Contract Award					■																							
Critical Design Review											■																	
Test/Certification															■	■												
Milestone C																												
Initial Operational Capability															■													
Final Operational Capability																											■	

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0305145F / <i>Arms Control Implementation</i>	Project (Number/Name) 675063 / <i>Digital Visual Imaging System (DVIS)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Milestone B	2	2016	2	2016
Contract Award	2	2016	2	2016
Critical Design Review	1	2017	1	2017
Test/Certification	4	2017	3	2018
Milestone C	4	2018	4	2018
Initial Operational Capability	3	2018	3	2018
Final Operational Capability	4	2019	4	2019

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