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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force										Date: May 2017		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0305145F I Arms Control Implementation							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	-	9.116	4.844	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	13.960
675063: Digital Visual Imaging System (DVIS)	-	9.116	4.844	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	13.960
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)"

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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total			
Previous President's Budget				9.137	4.844	0.000	0.000	0.000			
Current President's Budget				9.116	4.844	0.000	0.000	0.000			
Total Adjustments				-0.021	0.000	0.000	0.000	0.000			
• Congressional General Reductions				-0.021	0.000						
• 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	0.000	0.000	0.000			
C. Accomplishments/Planned Programs (\$ in Millions)							FY 2016	FY 2017	FY 2018		
Title: OC-135 Open Skies Sensors							9.116	4.844	-		
Description: Replace existing Open Skies aircraft wet film sensors with digital sensors.											
FY 2016 Accomplishments: 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							9.116	4.844	-		
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
• APAF:BA05: Line Item #1900: Digital Visual Imaging System (DVIS)	0.000	0.000	20.100	0.000	20.100	5.961	0.000	0.000	0.000	0.000	26.061
Remarks PE 035145F											

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<u>E. Acquisition Strategy</u> <p>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.</p>		
<u>F. Performance Metrics</u> <p>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.</p>		