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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force **DATE:** April 2013

APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0305178F: <i>National Polar-Orbiting Operational Environmental Satellite System (NPOESS)</i>
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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	-	43.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
644056: <i>National Polar-orbiting Operational Env. Sat. Syst.</i>	-	43.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		

MDAP/MAIS Code(s): 239

[#] 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

Note

The restructure from the National Polar-orbiting Operational Environmental Satellite System (NPOESS) program to the Defense Weather Satellite System (DWSS) was finalized in FY 2011. The DWSS program was terminated per Congressional direction in FY 2012. DoD will utilize the remaining Defense Meteorological Satellite Program (DMSP) satellites to satisfy the DoD overhead weather requirements until a follow-on capability can be acquired. All FY 2012 activities in this PE support DWSS program termination.

A. Mission Description and Budget Item Justification

Presidential Decision Directive/National Science and Technology Council-2 (PDD/NCTC-2) (May 1994) directed the DoD, Department of Commerce (DOC), and the National Aeronautics and Space Administration (NASA) to establish a converged national polar-orbiting weather satellite program. The converged program, the National Polar-orbiting Operational Environmental Satellite System (NPOESS), combined the follow-on to DoD's Defense Meteorological Satellite System (DMSP) and the DOC's Polar-orbiting Operational Environmental Satellite (POES) program.

On 1 February 2010, the Executive Office of the President announced a restructure of the NPOESS program which directed the acquisition and development of separate military and civil weather satellite programs. The Air Force began acquisition of the Defense Weather Satellite System (DWSS) to satisfy military weather requirements. The National Oceanographic and Atmospheric Administration (NOAA) will acquire the Joint Polar Satellite System (JPSS) and a shared common ground system to address civil weather and environmental requirements. The DWSS system was designed to produce environmental data records for regional/global meteorological, oceanographic, environmental, climatic data, and space environmental remote sensing information. DWSS capabilities would enable the anticipation and exploitation of atmospheric and space environment conditions for military operations planning. DWSS data would also be instrumental to civilian weather forecasters as they work to improve climate forecasting and severe weather modeling and prediction, reducing the potential for loss of civilian life and property.

The DWSS program was designed to satisfy DoD's environmental monitoring requirements in the early morning orbit by developing and launching two satellites [flight-1 (F1) and flight-2 (F2)], each with an electro-optical sensor, Space Environment Monitor (SEM-N), and a microwave sensor, with a planned initial launch capability no earlier than 2018.

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE				
3600: Research, Development, Test & Evaluation, Air Force		PE 0305178F: National Polar-Orbiting Operational Environmental Satellite System (NPOESS)				
BA 4: Advanced Component Development & Prototypes (ACD&P)						
RDT&E funds in FY 2012 were used to support DWSS program termination activities such as: leveraging and/or transitioning government investments in the NPOESS/ DWSS program including electro-optical, microwave, and space weather sensors, spacecraft, materials, algorithms and other DoD-specific elements of the common ground system; acquiring if necessary, any intellectual property rights and data; storage of program assets for potential future use; and covering any contractor or government liabilities incurred while performing termination activities.						
BA-4 - This program is a Budget Activity 4, Advanced Component Development and Prototypes (ACP&P) because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.						
B. Program Change Summary (\$ in Millions)		FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget		43.000	0.000	0.000	-	0.000
Current President's Budget		43.000	0.000	0.000	-	0.000
Total Adjustments		0.000	0.000	0.000	-	0.000
• Congressional General Reductions		-	0.000			
• Congressional Directed Reductions		-	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		-	0.000			
• Congressional Directed Transfers		-	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.000	0.000	0.000	-	0.000
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2012	FY 2013	FY 2014
Title: DWSS				43.000	0.000	0.000
Description: Develop and acquire DWSS satellites and sensors, fund development of DoD-specific elements within the common ground system, and develop algorithms.						
FY 2012 Accomplishments: Provided termination notification and direction to all contractors and labs. Continued to oversee orderly termination, disposition of assets, and contract cleanup including contractor performance assessment reports (CPARs) and settlement of equitable adjustments and engineering change proposals. Termination efforts have been transitioned to the Defense Contract Management Agency (DCMA).						
FY 2013 Plans: No funding in FY2013.						
FY 2014 Plans:						

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				R-1 ITEM NOMENCLATURE PE 0305178F: <i>National Polar-Orbiting Operational Environmental Satellite System (NPOESS)</i>								
C. Accomplishments/Planned Programs (\$ in Millions)							FY 2012	FY 2013	FY 2014			
No funding in FY2014.												
Accomplishments/Planned Programs Subtotals							43.000	0.000	0.000			
D. Other Program Funding Summary (\$ in Millions)												
	<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• ::	N/A	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Remarks												
E. Acquisition Strategy												
The restructure from the National Polar-orbiting Operational Environmental Satellite System (NPOESS) program to the Defense Weather Satellite System (DWSS) was finalized in FY 2011. The DWSS program was terminated per Congressional direction in FY 2012. DoD will utilize the remaining Defense Meteorological Satellite Program (DMSP) satellites to satisfy DoD overhead weather requirements until a follow-on capability can be acquired. All FY 2012 activities in this PE supported DWSS program termination.												
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 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE				PROJECT					
3600: Research, Development, Test & Evaluation, Air Force						PE 0305178F: National Polar-Orbiting Operational Environmental Satellite System (NPOESS)				644056: National Polar-orbiting Operational Env. Sat. Syst.					
BA 4: Advanced Component Development & Prototypes (ACD&P)															
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DWSS Development and System Integration	C/CPIF	Northrop Grumman:Redondo Beach, CA	-	41.916	Jan 2013	0.000		0.000		-		0.000	0.000	41.916	
GFE Sensor Development	MIPR	Naval Research Lab and Johns Hopkins Applied Physics Lab:Laurel, MD & Wash, DC,	-	0.000		0.000		0.000		-		0.000	0.000	0.000	
Subtotal			0.000	41.916		0.000		0.000		0.000		0.000	0.000	41.916	
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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 Program Office Support	Various	Space and Missile Systems Center (SMC); Los Angeles Air Force Base:El Segundo, CA	-	0.000		0.000		0.000		-		0.000	0.000	0.000	

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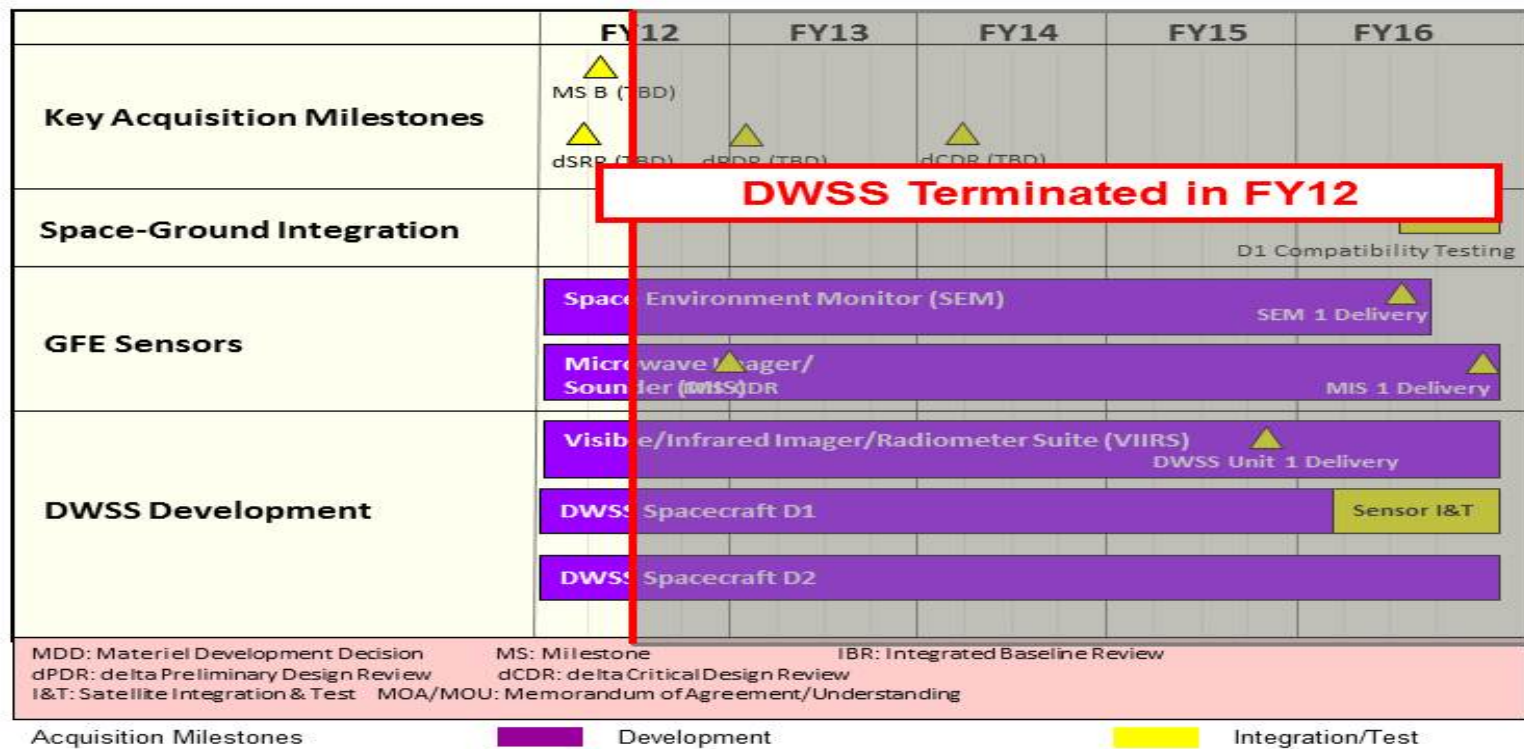
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering	MIPR	Aerospace:El Segundo, CA	-	0.000		0.000		0.000		-		0.000		0.000	0.000	0.000	
Program Support	Various	Space and Missile Systems Center (SMC); Los Angeles Air Force Base:El Segundo, CA	-	1.084	Sep 2012	0.000		0.000		-		0.000		0.000	0.000	1.084	
Subtotal			0.000	1.084		0.000		0.000		0.000		0.000		0.000	0.000	1.084	

	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	0.000	43.000		0.000		0.000		0.000		0.000	0.000	43.000	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0305178F: National Polar-Orbiting Operational Environmental Satellite System (NPOESS)	PROJECT 644056: National Polar-orbiting Operational Env. Sat. Syst.



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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force			DATE: April 2013
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Microwave Sensor for DWSS F1	1	2012	4	2012
Early Electrical Power Subsystem and Attitude Control Subsystem Electrical Engineering Model Testbed (EEMTB)	1	2012	4	2012
Electro-optical Sensor for DWSS F1	1	2012	4	2012
DWSS Program Termination Settlement	2	2012	4	2015