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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force											DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0605931F: B-2 Defensive Management System							
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	0.000	0.000	281.056	303.500	-	303.500	259.400	168.300	115.000	89.700	Continuing	Continuing
653844: B-2 DMS	0.000	0.000	281.056	303.500	-	303.500	259.400	168.300	115.000	89.700	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
MDAP/MAIS Code(s): 431												
[#] 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												
In FY12, this effort was funded under PE 0101127F, project 676023.												
A. Mission Description and Budget Item Justification												
DMS-M is the #1 priority modification program in the B-2 program office. The B-2 Defensive Management System Modernization (DMS-M) program maintains the B-2 direct attack capability while addressing emerging 21st century threats. DMS-M will upgrade the Electronic Support Measures, antennas, and display processing units. Modernization of this system will resolve the #1 obsolescence issue in the B-2 fleet.												
The B-2 DMS-M will provide the Joint Force Commander and the B-2 fleet with advanced situational awareness, improved supportability, enhanced lethality, increased platform survivability, and networked battlespace awareness. The DMS-M upgrade will provide the following core capabilities for the B-2 and joint warfighting force:												
1) Ability to provide indication, type, and position of airborne and ground-based radio frequency (RF) threats with the situational awareness needed to avoid, engage, or negate threats,												
2) Improved RF threat information that can be reported to control agencies or inter-flight for improved situation/battlespace awareness,												
3) Ability to adequately control, process, and display incoming threat information to the aircrew and provide updated battle-space awareness,												
4) Improved supportability and reduced operations and maintenance costs.												
BA5 - This program is in Budget Activity 5, Engineering and Manufacturing Development (EMD, formerly known as System Development and Demonstration (SDD).) It is expected to pass Milestone B and begin conducting Engineering and Manufacturing Development tasks in FY14 aimed at meeting validated requirements prior to Full Rate Production.												

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B. Program Change Summary (\$ in Millions)		FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget		0.000	281.056	318.150	-	318.150
Current President's Budget		0.000	281.056	303.500	-	303.500
Total Adjustments		0.000	0.000	-14.650	-	-14.650
• 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	-14.650	-	-14.650
Change Summary Explanation						
FY14 adjusted to match the approved Service Cost Position (SCP).						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2012	FY 2013	FY 2014
Title: B-2 Defensive Management System Modernization (DMS-M) Tech Development Ph 1				0.000	12.429	0.000
Description: Refine DMS-M system concept. Begin avionics and Electronic Support Measures (ESM) hardware/software development. Conduct display processor and antenna competitions. Initiate rapid acquisition risk reduction efforts to accelerate program schedule.						
FY 2012 Accomplishments: In FY12, this effort was funded under PE 0101127F, project 676023.						
FY 2013 Plans: Complete delivery and install of CEESIM and long-lead developmental hardware supporting TD Phase 2 and EMD.						
Title: B-2 Defensive Management System Modernization (DMS-M) Tech Development Ph 2				0.000	259.853	189.251
Description: Continue hardware and software development from Phase 1. Conduct Preliminary Design Review (PDR) and Milestone B review in FY14. Initiate required upgrades for Mission Planning System (MPS) software and Trainers (hardware & software).						
FY 2012 Accomplishments: In FY12, this effort was funded under PE 0101127F, project 676023.						
FY 2013 Plans:						

UNCLASSIFIED

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C. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014
Continue software development and hardware integration. Conduct supplier PDRs. Initiate purchase of long-lead hardware to support early flight testing in EMD phase. Initiate contracts for MPS (software) and Trainer (hardware/software) upgrade development.											
FY 2014 Plans: Complete technology development. Conduct system PDR and Milestone B. Monitor long-lead hardware purchases to support EMD. Continue MPS and Trainer development activities.											
Title: B-2 Defensive Management System Modernization (DMS-M) Engineering and Manufacturing Development (EMD) Description: Conduct Critical Design Review (CDR). Complete hardware/software development, final hardware/software integration, and test activities. Complete development and provide MPS software upgrade and initial Training System upgrades to support flight test.									0.000	0.000	106.621
FY 2014 Plans: Conduct array-level demonstration of antennas. Continue hardware/software development/integration. Prepare for CDR in 1QFY15. Continue MPS software and Training System software/hardware development.											
Title: DMS PMA Description: DMS PMA FY 2013 Plans: DMS PMA FY 2014 Plans: DMS PMA									0.000	8.774	7.628
Accomplishments/Planned Programs Subtotals									0.000	281.056	303.500
D. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• APAF: BA05: B00200: B-2A	0.000	0.000	0.000		0.000	0.000	0.000	74.264	250.044	345.000	745.614
• RDT&E: BA05: PE 0101127F: B-2 DMS-M Development	46.427	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	46.427
• APAF: BA06: 000999: Initial Spares/Repair Parts	0.000	0.000	0.000		0.000	0.000	0.000	3.087	14.651	32.400	49.938

UNCLASSIFIED

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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</u> <u>Complete</u>	<u>Total Cost</u>
Remarks E. Acquisition Strategy Key elements of the overall acquisition strategy include: use of sole source contract with a prime/integrating contractor (Northrop Grumman) who will perform subsystem and component competitions where appropriate, use of cost plus incentive fee (CPIF) development contracts, and the combination of developmental upgrades with software sustainment blocks to minimize the number of software releases, aircraft downtime, and differences in fielded configurations.											
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			
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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
Air Vehicle - Technology Development Ph1	SS/CPIF	Various,;	0.000	0.000		12.429	Nov 2012	0.000		-		0.000	0.000	12.429	
Air Vehicle - Technology Development Ph 2	SS/CPIF	Various,;	0.000	0.000		258.633	Oct 2012	189.251	Dec 2013	-		189.251	3.943	451.827	TBD
Air Vehicle - Engineering and Manufacturing Development (EMD)	SS/CPIF	Various,;	0.000	0.000		0.000		105.401	May 2014	-		105.401	612.808	718.209	
Subtotal			0.000	0.000		271.062		294.652		0.000		294.652	616.751	1,182.465	
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
Government Test	PO	AFFTC,;	0.000	0.000		1.220	Oct 2012	1.220	Oct 2013	-		1.220	41.801	44.241	TBD
Subtotal			0.000	0.000		1.220		1.220		0.000		1.220	41.801	44.241	
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
PMA	Various	Various,;	0.000	0.000		8.774	Oct 2012	7.628	Oct 2013	-		7.628	24.519	40.921	TBD
Subtotal			0.000	0.000		8.774		7.628		0.000		7.628	24.519	40.921	

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	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	0.000		281.056		303.500		0.000		303.500	683.071	1,267.627		

Remarks

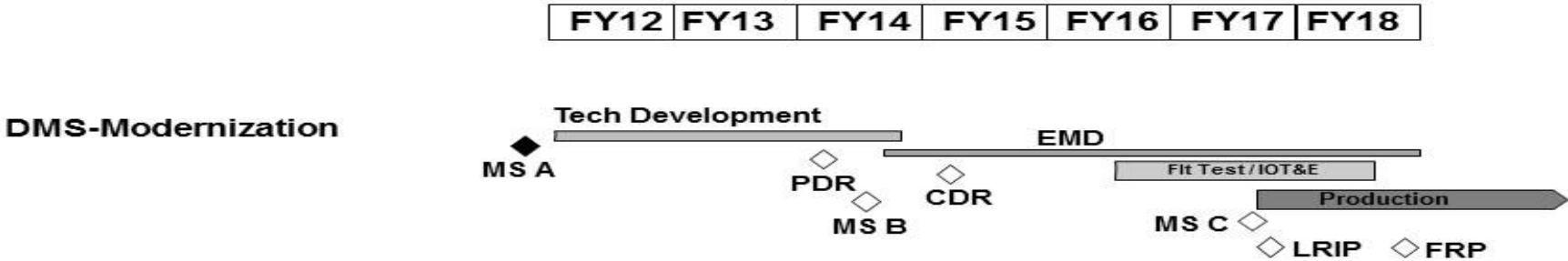
In FY12, this effort was funded under PE 0101127F, project 676023.

Northrop-Grumman, the prime contractor for the B-2 weapon system, is the integrator and major contractor for B-2 DMS activities.

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force		DATE: April 2013
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B-2 FY14 PB DMS-M
Detailed Schedule



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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
DMS-M Technology Development Ph 1 Contract Award	1	2012	1	2012
DMS-M Preliminary Design Review	1	2014	1	2014
DMS-M Technology Development Ph 2 Contract Award	1	2013	1	2013
DMS-M Milestone B Decision	3	2014	3	2014
DMS-M EMD Contract Award	3	2014	3	2014
DMS-M EMD Contract Period of Performance	3	2014	4	2018
DMS-M Critical Design Review	1	2015	1	2015
DMS-M Flight Test Program	3	2016	3	2018
DMS-M Milestone C	3	2017	3	2017
DMS-M Low Rate Initial Production Contract Award	4	2017	4	2017
DMS-M Full Rate Production Contract Award	4	2018	4	2018