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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605931F: <i>B-2 Defensive Management System</i>
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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	-	-	281.056	-	281.056	318.150	254.961	216.195	141.114	Continuing	Continuing
653844: <i>B-2 DMS</i>	-	-	281.056	-	281.056	318.150	254.961	216.195	141.114	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note
 In FY11, this effort was funded under PE 0101127F, project 675345.
 In FY12, this effort was funded under PE 0101127F, project 676023.

A. Mission Description and Budget Item Justification

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 is the #1 priority modification program in the B-2 program office. 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 B-2 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, and
- 4) Improved supportability and reduced operations and maintenance costs.

As DMS-M requires increased functionality and capability of the display processor, it includes FY10 and future year budgets transitioned from the B-2 Integrated Display System modification (MN-110041). FY10 Congressional Plus-up for B-2 Strike Control System establishes the foundation for all future data fusion and pilot-vehicle interface upgrades. Funds were applied to the DMS-M development program.

BA5 - 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

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B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	-	-	-	-	-
Current President's Budget	-	-	281.056	-	281.056
Total Adjustments	-	-	281.056	-	281.056
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	281.056	-	281.056

Change Summary Explanation

FY13 increase to the new PE 0605931F, project 653844 for B-2 Defensive Management System, came from funds transferred from PE 0101127F, project 676023.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Title: B-2 Defensive Management System Modernization (DMS-M)	-	-	281.056
Description: DMS Modernization program develops improved aircrew situational awareness through replacement of passive antennas, receiver/processors, display processors; also addresses critical system shortfalls, and improves DMS component repair issues.			
FY 2011 Accomplishments: In FY11, this effort was funded under PE 0101127F, project 675345.			
FY 2012 Plans: In FY12, this effort was funded under PE 0101127F, project 676023.			
FY 2013 Plans: Continue DMS Modernization technology development leading to Preliminary Design Review and a successful Milestone B decision in FY14.			
Accomplishments/Planned Programs Subtotals	-	-	281.056

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D. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PE 0101127F, project 675345: <i>B-2 DMS-M Development</i>	85.260	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
• PE 0101127F, project 676023: <i>B-2 DMS-M Development</i>	0.000	41.127	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

E. Acquisition Strategy

Key elements of the overall acquisition strategy include: use of sole source contract with a prime/integrating contractor (Northrop Grumman); use of cost plus award fee/ incentive fee (CPAF/IF) 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-4, RDT&E Schedule Profile: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605931F: <i>B-2 Defensive Management System</i>	PROJECT 653844: <i>B-2 DMS</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Air Force		DATE: February 2012
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
DMS-M Milestone A Decision	4	2011	4	2011
DMS-M Technology Development Contract Award	1	2012	1	2012
DMS-M Preliminary Design Review	4	2013	4	2013
DMS-M Milestone B Decision	1	2014	1	2014
DMS-M EMD Contract Award	2	2014	2	2014
DMS-M Critical Design Review	4	2014	4	2014