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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force	DATE: February 2012
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APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>				PE 0603840F: <i>Global Broadcast Service (GBS)</i>							
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	25.793	5.631	14.652	-	14.652	-	-	-	-	Continuing	Continuing
65A023: <i>Satellite Broadcast Management Transition</i>	25.793	5.631	14.652	-	14.652	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

The Cost to Complete and Total Cost for MDAP projects in this program element are documented in the R3. The Cost to Complete and Total Cost on the R2 are entered as "Continuing" and not reflective of the total cost for MDAP projects since the R2 does not account for prior years funding.

A. Mission Description and Budget Item Justification

Global Broadcast Service provides DoD with an efficient, high data rate broadcast capability from distributed information sources to dispersed warfighters who receive the broadcast directly on small, inexpensive user terminals. This Program Element funds the broadcast transmit activities associated with the GBS architecture. The GBS broadcast receive segment consists of Service-funded terminals, known as Receive Suites, which receive the broadcast and then disseminate information to local users. Service Receive Suites and the integration into service networks are funded in other Program Elements. GBS broadcast data includes video (especially from Unmanned Aerial Vehicles), imagery, logistics, weather data, maps and operational orders. The GBS space segment includes transponders on operational Navy satellites, currently Ultra High Frequency Follow-On (UFO) 8 and UFO 10, augmentation by commercial leased Ku-band transponders, and now the Wideband Global SATCOM (WGS) System.

Currently, the GBS broadcast segment consists of Satellite Broadcast Managers (SBMs) for the broadcast build and Primary Injection Points (PIPs) for the broadcast uplink, and the Transportable Satellite Broadcast Managers (TSBMs) for the broadcast build in theatre. The SBMs and PIPs, together known as Transmit Suites, are located at Navy facilities. The Theatre Injection Point (TIP) is a ground mobile satellite terminal suite transportable via two heavy High Mobility Multi-purpose Wheeled Vehicles (HMMWV) consisting of the TSBM and the Army Phoenix terminal.

During FY09-13, the broadcast creation transitions to existing Defense Information Systems Agency (DISA) Defense Enterprise Computing Centers (DECCs). This transition addresses SBM hardware/software obsolescence issues. The DECC transition contract was awarded on 15 May 09. This effort was designated as an ACAT III program and funding was realigned (i.e., a separate project was created) to delineate between the current ACAT I GBS program and the ACAT III SBM Transition program.

In FY13, this effort completes SBM transition/upgrade to DECCs, as well as systems transmission security, test, information assurance, program office support and Operational Requirements Document (ORD) III studies.

Funding is in Budget Activity 5, System Development and Demonstration, since program is fielding pre-production equipment.

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BA 5: Development & Demonstration (SDD)						
B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	
Previous President's Budget	18.171	5.680	2.337	-	2.337	
Current President's Budget	25.793	5.631	14.652	-	14.652	
Total Adjustments	7.622	-0.049	12.315	-	12.315	
• Congressional General Reductions	-	-				
• Congressional Directed Reductions	-	-				
• Congressional Rescissions	-	-				
• Congressional Adds	-	-				
• Congressional Directed Transfers	-	-				
• Reprogrammings	7.715	-				
• SBIR/STTR Transfer	-	-				
• Other Adjustments	-0.093	-0.049	12.315	-	12.315	
Change Summary Explanation						
FY11: -\$.093M for Congressional General Reduction; \$7.715 reprogramming due to higher DoD priorities						
FY13: \$12.315M funding increase due to schedule realignment						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2011	FY 2012	FY 2013
Title: Satellite Broadcast Management Transition				25.793	5.631	14.652
Description: Develop a robust satellite broadcast management architecture and implement systems transmission security (TRANSEC).						
FY 2011 Accomplishments: Continued development of a robust satellite broadcast management architecture and implemented systems TRANSEC.						
FY 2012 Plans: Continue development of a robust satellite broadcast management architecture and implement systems TRANSEC.						
FY 2013 Plans: Complete development of a robust satellite broadcast management architecture and implement systems TRANSEC.						
Accomplishments/Planned Programs Subtotals				25.793	5.631	14.652

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APPROPRIATION/BUDGET ACTIVITY

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R-1 ITEM NOMENCLATURE

PE 0603840F: Global Broadcast Service (GBS)

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

Line Item	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
• P-46: OPAF, PE 0303600F, GBS Transmit Strings	1.661	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30.097
• P46: OPAF, PE 0303601F, GBS Receive Suites/TIPs	29.845	16.117	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	129.979
• R-180: RDT&E AF, PE 0303601F, MILSATCOM Terminals, GBS Receive Suites	3.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.036

E. Acquisition Strategy

Awarded a new contract in FY09 based on full and open competition to transfer Satellite Broadcast Management functionality to two Defense Enterprise Computing Center (DECC) facilities. The DECC will utilize a new hardware and software architecture to resolve impending Commercial off the Shelf (COTS) obsolescence, Information Assurance compliance and sustainment issues.

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 0603840F: <i>Global Broadcast Service (GBS)</i>	PROJECT 65A023: <i>Satellite Broadcast Management Transition</i>

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Exhibit R-4A, RDT&E Schedule Details: 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 0603840F: <i>Global Broadcast Service (GBS)</i>	PROJECT 65A023: <i>Satellite Broadcast Management Transition</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Systems Acceptance Test	3	2012	4	2012
Operational Turnover	3	2013	3	2013