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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 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305179F: <i>Integrated Broadcast Service (IBS)</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	-	0.000	0.000	8.289	-	8.289	8.699	8.655	8.693	8.696	Continuing	Continuing
674779: <i>Integrated Broadcast Service</i>	-	0.000	0.000	8.289	-	8.289	8.699	8.655	8.693	8.696	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		

[#] 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 FY 2014, Project 674779, Integrated Broadcast Service, efforts were transferred from PE 0603850F, Integrated Broadcast Service (Dem/Val), Project Number 644778, Integrated Broadcast Service, in order to realign funds in support of transition to sustainment.

A. Mission Description and Budget Item Justification

The Integrated Broadcast Service (IBS) fulfills the warfighter's requirements for worldwide threat warning and situational awareness information with timely production and simultaneous dissemination of Intelligence, Surveillance, and Reconnaissance (ISR) derived combat information. It also provides target tracking data to support threat avoidance, targeting, force protection, and situational awareness. This information is continually refined in near real time by strategic, operational and tactical sensors.

This PE funds IBS system development and sustainment programs as described below:

- A Common Interactive Broadcast (CIB) on UHF satellite channel using a Common Message Format (CMF) and a MIL-STD Demand Assigned Multiple Access (DAMA) compliant waveform and Line of Sight (LOS) using the Wideband Networking Waveform (WNW) and Joint Tactical Terminal (JTT).

- IBS-Network Services (IBS-NS) includes two Global IBS Network Servers (GINS) and four Theater Interface Nodes (TINs) to support the geographic Combatant Commanders; all built to validated warfighter requirements.

- Two GINS receive data from each theater and integrate this data into a worldwide picture available to all network/broadcast users.

- Four regional TINs allow local and out-of-theater users (not directly receiving IBS broadcast) to receive the CIB information broadcast. Additionally, the TIN will receive and inject data into the CIB for producers without access to the theater CIB.

Funds development of evolving suite of interoperable planning and decision support capabilities comprised of software hardware and communication products. This project will identify and implement an open, scalable system architecture that will accommodate growth as the virtual world grows and cyber operations change.

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 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget		0.000	0.000	20.389	-	20.389
Current President's Budget		0.000	0.000	8.289	-	8.289
Total Adjustments		0.000	0.000	-12.100	-	-12.100
• 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	-12.100	-	-12.100
Change Summary Explanation						
In FY14, \$12.1M transferred to PE 0305179F, OPAF (\$4M) and O&M (\$8.1M), in order to realign funds in support of transition to sustainment.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2012	FY 2013	FY 2014
Title: IBS-NS (GINS/TINs) Development				0.000	0.000	1.482
Description: Continue Advanced Development of IBS-NS(GINS/TINs).						
FY 2014 Plans: Will continue Advanced Development of IBS-NS (GINS/TINs).						
Title: IBS (IBS-NS, CIB, and CMF) Modernization				0.000	0.000	4.700
Description: Modernizes IBS (IBS-NS, CIB, and CMF).						
FY 2014 Plans: Will modernize IBS (IBS-NS, CIB, and CMF).						
Title: Enterprise Systems				0.000	0.000	0.689
Description: Enterprise Systems Engineering/CMF Integration/CIB Integration.						
FY 2014 Plans: Will continue Enterprise Systems Engineering/CMF Integration/CIB Integration.						
Title: Test & Evaluation				0.000	0.000	1.000

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C. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
Description: Tests & Evaluates the IBS system.												
FY 2014 Plans: Will test & evaluate the IBS system.												
Title: PMA										0.000	0.000	0.418
Description: Maintains a Program Management Office, including program supervision, systems engineering, finance and acquisition strategy execution.												
FY 2014 Plans: Will maintain a Program Management Office, including program supervision, systems engineering, finance and acquisition strategy execution.												
Accomplishments/Planned Programs Subtotals										0.000	0.000	8.289
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	
• RDTE: BA04: 0603850F: Integrated Broadcast Service (IBS) (Dem/Val)	19.442	19.938	0.000		0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
• OPAF: BA03: Line Item # 832070: Intelligence Comm Equipment	9.993	13.095	14.121		14.121	15.082	14.064	15.300	16.485	Continuing	Continuing	
Remarks												
E. Acquisition Strategy IBS uses evolutionary acquisition approach. The Program Definition/Risk Reduction phase (Spiral 1) was awarded via a full and open competition. BTG/Titan/L-3 Comm/L-3 STRATIS/L-3 National Security Solutions was awarded for the Engineering, Manufacturing and Development (EMD) phase (Spiral 2-4). The acquisition will continue with a Sole Source Award to L-3 National Security Solutions for Advanced Development.												
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 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0305179F: Integrated Broadcast Service (IBS)				PROJECT 674779: Integrated Broadcast Service					
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
IBS-NS Advanced Development of Spiral 4 release of GINS/TINs	SS/CPIF	L-3 National Security Solutions:Reston, VA	-	0.000		0.000		1.482	Jan 2014	-		1.482	Continuing	Continuing	TBD
IBS (IBS-NS, CIB, and CMF) Modernization	SS/FFP	L-3 National Security Systems:Reston, VA	-	0.000		0.000		4.700	Oct 2013	-		4.700	Continuing	Continuing	TBD
Subtotal			0.000	0.000		0.000		6.182		0.000		6.182			
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
Interoperability and Development Testing	MIPR	JITC:Ft Huachuca, AZ	-	0.000		0.000		0.500	Oct 2013	-		0.500	Continuing	Continuing	TBD
Responsible Test Organization (RTO)	PO	46th Test Squadron:Eglin AFB, FL	-	0.000		0.000		0.500	Oct 2013	-		0.500	Continuing	Continuing	TBD
Subtotal			0.000	0.000		0.000		1.000		0.000		1.000			
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
SPO/Professional Acquisition Support Services (PASS) and	C/FP	Various:Bedford, MA	-	0.000		0.000		0.418	Jan 2014	-		0.418	Continuing	Continuing	

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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	Cost To Complete	Total Cost	Target Value of Contract
Engineering and Technical Acquisition Support Service (ETASS)															
Enterprise Engineering/CMF Integration/CIB Integration	SS/CPFF	L3 Comm, IS:Greenville, TX	-	0.000		0.000		0.689	Mar 2013	-		0.689	Continuing	Continuing	TBD
Subtotal			0.000	0.000		0.000		1.107		0.000		1.107			
			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		0.000		8.289		0.000		8.289			
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 7: *Operational Systems Development*

R-1 ITEM NOMENCLATURE

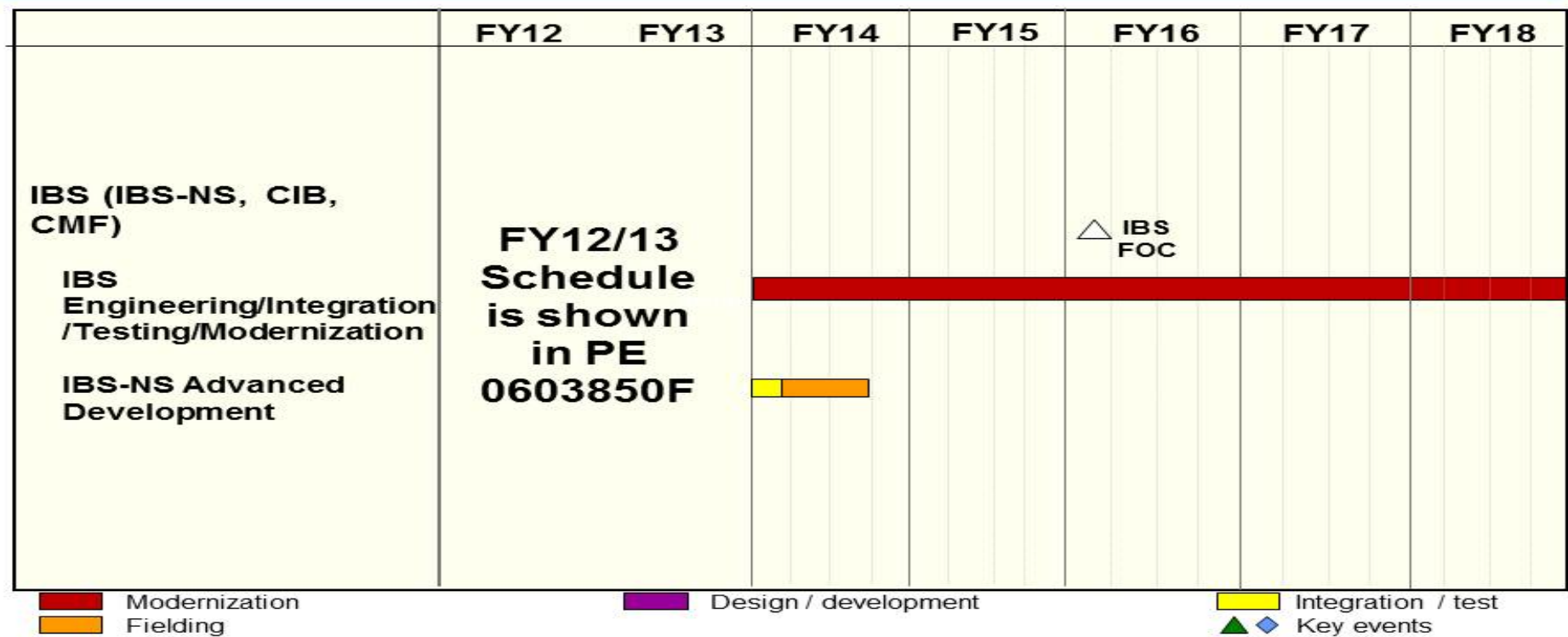
PE 0305179F: *Integrated Broadcast Service (IBS)*

PROJECT

674779: *Integrated Broadcast Service*



IBS Broadcast Segment Schedule PE 0305179F



FY14 PB RDOCs

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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
IBS (IBS-NS, CIB, and CMF) FOC	1	2016	1	2016
Engineering/Integration/Testing/Modernization of IBS (IBS-NS, CIB, and CMF)	1	2014	4	2018
IBS-NS Advanced Development	1	2014	3	2014