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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2015 Air Force **Date:** March 2014

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0305179F / <i>Integrated Broadcast Service (IBS)</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	-	6.954	8.592	-	8.592	8.556	8.606	8.623	8.787	Continuing	Continuing
674779: <i>Integrated Broadcast Service</i>	-	-	6.954	8.592	-	8.592	8.556	8.606	8.623	8.787	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

# The FY 2015 OCO Request will be submitted at a later date.

**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 modernization 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 modernization 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>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO</b>	<b>FY 2015 Total</b>
Previous President's Budget	-	8.289	8.699	-	8.699
Current President's Budget	-	6.954	8.592	-	8.592
Total Adjustments	-	-1.335	-0.107	-	-0.107
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-1.335			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	-0.107	-	-0.107

**Change Summary Explanation**

In FY14, -\$1.335M Congressional Directed Reduction.

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
<p><b>Title:</b> Integrated Broadcast Service (IBS) - Network Services (NS) (GINS/TINs) Development</p> <p><b>Description:</b> Continue Advanced Development of IBS-NS(GINS/TINs).</p> <p><b>FY 2013 Accomplishments:</b> N/A</p> <p><b>FY 2014 Plans:</b> Completing Advanced Development of IBS-NS (GINS/TINs).</p>	-	0.921	-
<p><b>Title:</b> Integrated Broadcast Service (IBS-NS, CIB, and CMF) Modernization</p> <p><b>Description:</b> Modernizes IBS (IBS-NS, CIB, and CMF).</p> <p><b>FY 2013 Accomplishments:</b> N/A</p> <p><b>FY 2014 Plans:</b> Increasing classified message/day throughput levels, providing MIL-STD compliant implementation in IBS-NS, and providing resiliency to IBS CIB UHF Satellite Communications (SATCOM) Broadcast.</p> <p><b>FY 2015 Plans:</b></p>	-	4.113	7.192

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
Continuing MIL-STD compliant implementation in IBS-NS, continue providing resiliency to IBS CIB UHF Broadcast, providing COCOMs the ability to automatically plan for the IBS CIB UHF broadcast and its active producers, and integrating new CMF data fields into enterprise components.			
<b>Title:</b> Enterprise Systems <b>Description:</b> Enterprise Systems Engineering/CMF Integration/CIB Integration. <b>FY 2013 Accomplishments:</b> N/A <b>FY 2014 Plans:</b> Continuing Enterprise Systems Engineering/CMF Integration/CIB Integration. <b>FY 2015 Plans:</b> Continuing Enterprise Systems Engineering/CMF Integration/CIB Integration.	-	0.578	0.700
<b>Title:</b> Test & Evaluation <b>Description:</b> Tests & Evaluates the IBS system. <b>FY 2013 Accomplishments:</b> N/A <b>FY 2014 Plans:</b> Testing & evaluating the IBS system. <b>FY 2015 Plans:</b> Testing & evaluating the IBS system.	-	1.342	0.700
<b>Accomplishments/Planned Programs Subtotals</b>	-	6.954	8.592

<b>D. Other Program Funding Summary (\$ in Millions)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO</b>	<b>FY 2015 Total</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• RDTE: BA04: 0603850F: <i>Integrated Broadcast Service (IBS) (Dem/Val)</i>	18.216	-	-	-	-	-	-	-	-	-	-
• OPAF: BA03: Line Item # 832070: <i>Intelligence Comm Equipment</i>	13.070	14.121	14.949	-	14.949	13.987	15.221	16.395	16.687	Continuing	Continuing

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

<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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**Remarks**

**E. Acquisition Strategy**

The IBS acquisition continues with a Sole Source Award to L-3 National Security Solutions for the Advanced Development and its transition to sustainment in the FY14 timeframe. For Modernization efforts, another Sole Source contract will be awarded to L-3 National Security Solutions.

**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 2015 Air Force

Date: March 2014

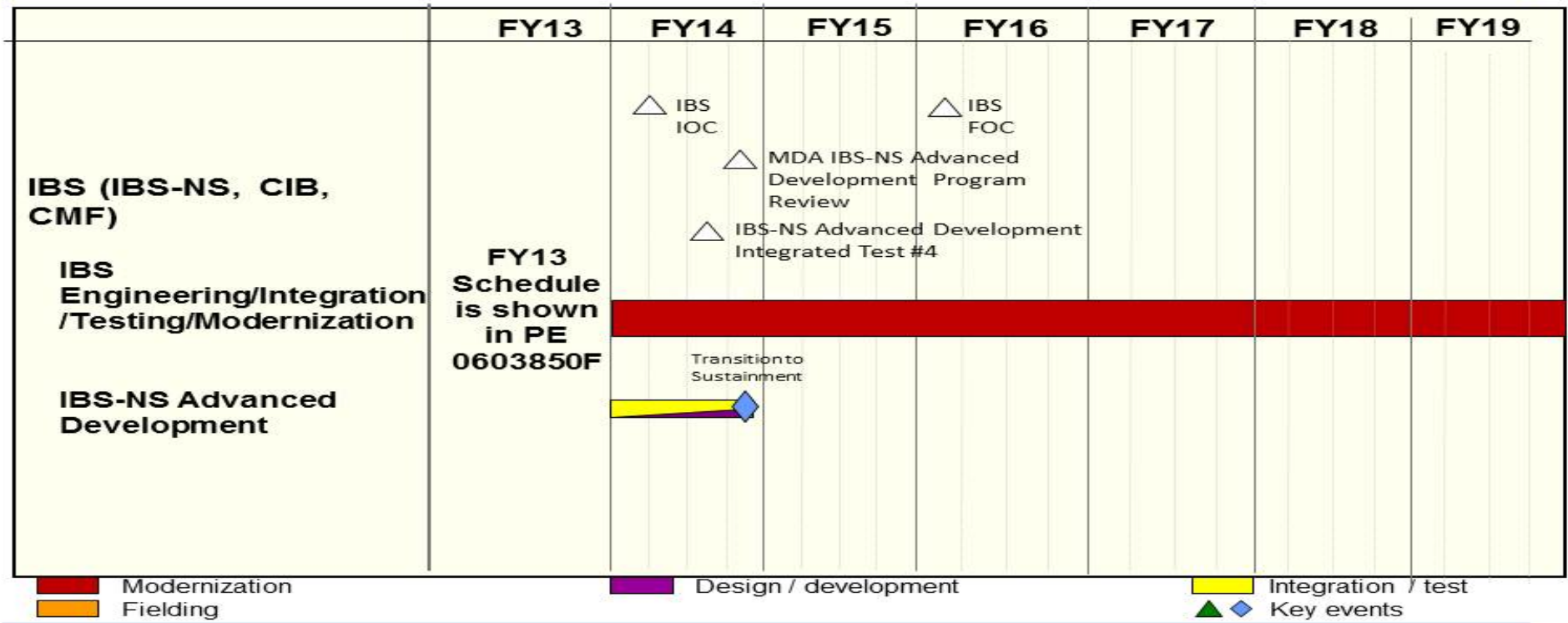
Appropriation/Budget Activity  
3600 / 7

R-1 Program Element (Number/Name)  
PE 0305179F / *Integrated Broadcast Service (IBS)*

Project (Number/Name)  
674779 / *Integrated Broadcast Service*



## *IBS Broadcast Segment Schedule PE 0305179F*



FY15 PB