

UNCLASSIFIED

PE NUMBER: 0304260F

PE TITLE: Airborne SIGINT Enterprise (JMIP)

Exhibit R-2, RDT&E Budget Item Justification									DATE May 2009	
BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0304260F Airborne SIGINT Enterprise (JMIP)					
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	138.346	173.160	176.989	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
5180 RC-135 (Airborne SIGINT Development - RC-135)	49.061	48.958	42.619	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
5182 MQ-1/MQ-9 (Airborne SIGINT Development - Predator)	13.533	2.710	59.886	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
5183 Common Development (Airborne SIGINT Development - Common Development)	45.130	65.440	32.837	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
5184 RQ-4 (Airborne SIGINT Development - Global Hawk)	10.817	41.803	29.099	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
5185 Compass Bright (Airborne SIGINT Development - Compass Bright)	8.430	8.750	5.913	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
5186 Special Programs (Airborne SIGINT Development - Special Platforms)	11.375	5.499	6.635	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
(U) A. Mission Description and Budget Item Justification (U) This PE provides signals intelligence (SIGINT) development efforts for all USAF airborne platforms. The funds in this PE are distributed among all Airborne SIGINT Enterprise (ASE) projects based on the development priorities established by the USAF SIGINT Capabilities Working Group (SCWG) in order to build a total SIGINT capability. As a result, the USAF will move funds between projects periodically to develop the highest priority projects in response to urgent warfighter needs. This PE will participate in the development, integration, testing, and implementation of international standards (to include NATO standardization agreements) to ensure joint, allied, and coalition interoperability. Modernization efforts include sensors for the platforms and their appropriate interfaces with the Air Force Distributed Common Ground System (AF DCGS). This approach will allow a synergistic development effort to be accomplished while developing a true Air Force-wide capability. This enterprise will use the Air Force Cryptologic Architecture (AFCA) for planning and decision-making and, in turn, employ the Joint Airborne SIGINT Architecture (JASA) open architecture standards to allow maximum ease of future upgrades and system interoperability. The primary goal of the ASE is to produce an architecture-based, capability-focused SIGINT investment strategy for the USAF. (U) Funds in any project may be used to fund initiatives in other projects within this PE at the discretion of the SCWG. (U) Funds in any project can also cover activities to include studies and analysis to support both current program planning and execution and future program planning. (U) This program is Budget Activity 7, Operational Systems Development, because it involves the development of SIGINT capabilities and integration with										

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Exhibit R-2 (PE 0304260F)

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operational systems such as the RC-135, U-2, MQ-1/MQ-9, RQ-4, Special Programs (Senior Scout and others as required), their associated ground stations and data links, and Compass Bright programs.

(U) B. Program Change Summary (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget	135.162	173.631	169.364
(U) Current PBR/President's Budget	138.346	173.160	176.989
(U) Total Adjustments	3.184	-0.471	
(U) Congressional Program Reductions			
Congressional Rescissions		-0.471	
Congressional Increases			
Reprogrammings	3.184		
SBIR/STTR Transfer			
(U) <u>Significant Program Changes:</u>			
Program increase in FY10 is for SIGINT on MQ-1/9.			

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Exhibit R-2a, RDT&E Project Justification									DATE May 2009																	
BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0304260F Airborne SIGINT Enterprise (JMIP)			PROJECT NUMBER AND TITLE 5180 RC-135 (Airborne SIGINT Development - RC-135)																		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total																
5180 RC-135 (Airborne SIGINT Development - RC-135)	49.061	48.958	42.619	0.000	0.000	0.000	0.000	0.000	Continuing	TBD																
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0																		
(U) <u>A. Mission Description and Budget Item Justification</u> (U) This project supports design studies, engineering analysis, non-recurring engineering, and other efforts associated with the integration and modification of the RC-135 SIGINT sensors and their associated air and ground components. Through extensive utilization of commercial-off-the-shelf (COTS)-based solutions to fielding of needed capabilities, it also incurs the need for continuous diminishing manufacturing sources integration efforts consistent with the COTS technology cycle. (U) These efforts provide the requisite engineering for preliminary assessments of technical feasibility, operability, or military utility as well as specific engineering implementations integrated into the various baseline modifications. (U) These funds will be split between the RIVET JOINT, COMBAT SENT, and COBRA BALL programs. Funding reflects the SIGINT Capabilities Working Group (SCWG) priorities and the accomplishment of other ASE initiatives. (U) RC-135 Breakdown of funds (in millions): <table style="margin-left: 40px; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">FY08</th> <th style="text-align: center;">FY09</th> <th style="text-align: center;">FY10</th> </tr> </thead> <tbody> <tr> <td>RIVET JOINT</td> <td style="text-align: center;">42.261</td> <td style="text-align: center;">42.191</td> <td style="text-align: center;">35.719</td> </tr> <tr> <td>COMBAT SENT</td> <td style="text-align: center;">3.700</td> <td style="text-align: center;">3.700</td> <td style="text-align: center;">3.600</td> </tr> <tr> <td>COBRA BALL</td> <td style="text-align: center;">3.100</td> <td style="text-align: center;">3.067</td> <td style="text-align: center;">3.300</td> </tr> </tbody> </table> (U) This program effort is Budget Activity 7, Operational Systems Development, because it involves Air Force RDT&E necessary to field essential operational capabilities.												FY08	FY09	FY10	RIVET JOINT	42.261	42.191	35.719	COMBAT SENT	3.700	3.700	3.600	COBRA BALL	3.100	3.067	3.300
	FY08	FY09	FY10																							
RIVET JOINT	42.261	42.191	35.719																							
COMBAT SENT	3.700	3.700	3.600																							
COBRA BALL	3.100	3.067	3.300																							
(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u> (U) (U) Initiates Non-Recurring Engineering (NRE) for the RC-135 SIGINT Systems SEE Classified Budget Exhibits (PE 0305207F) (U) (U) Total Cost							FY 2008 49.061 49.061	FY 2009 48.958 48.958	FY 2010 42.619 42.619																	

Exhibit R-2a, RDT&E Project Justification

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5180 RC-135 (Airborne SIGINT
Development - RC-135)(U) **C. Other Program Funding Summary (\$ in Millions)**

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) (U) PE 0305207F, APAF	165.551	142.694	151.682						Continuing	TBD

(U) These funds within the PE 0305207F procure all necessary aircraft modifications for the RC-135 program and include those funds necessary to field SIGINT capabilities developed under Project 675180 of this Airborne SIGINT Enterprise.

(U) **D. Acquisition Strategy**

(U) Aircraft, aircraft sensor systems, and associated ground support system modifications planned include the procurement, fielding and logistical support for three distinct RIVET JOINT baseline configurations [baseline 8, 9, 10] and two distinct baselines [baselines 3 & 4] for COMBAT SENT and COBRA BALL. Development and integration managed by the Big Safari Systems Group; they employ evolutionary acquisition approaches to field incremental capability improvements.

Exhibit R-3, RDT&E Project Cost Analysis

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PROJECT NUMBER AND TITLE

5180 RC-135 (Airborne SIGINT
Development - RC-135)

(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &</u> <u>Type</u>	<u>Performing</u> <u>Activity &</u> <u>Location</u>	<u>Total</u> <u>Prior to FY</u> <u>2008</u> <u>Cost</u>	<u>FY 2008</u> <u>Cost</u>	<u>FY 2008</u> <u>Award</u> <u>Date</u>	<u>FY 2009</u> <u>Cost</u>	<u>FY 2009</u> <u>Award</u> <u>Date</u>	<u>FY 2010</u> <u>Cost</u>	<u>FY 2010</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	<u>Target Value</u> <u>of Contract</u>
(U) <u>Product Development</u> SIGINT Sensor Development and Integration	CPFF and FFP	L-3 COM Greenville, TX		49.061	Jan-08	48.958	Jan-09	42.619	Jan-10	Continuing	TBD	TBD
Subtotal Product Development			0.000	49.061		48.958		42.619		Continuing	TBD	TBD
Remarks:												
(U) Total Cost			0.000	49.061		48.958		42.619		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

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07 Operational System Development

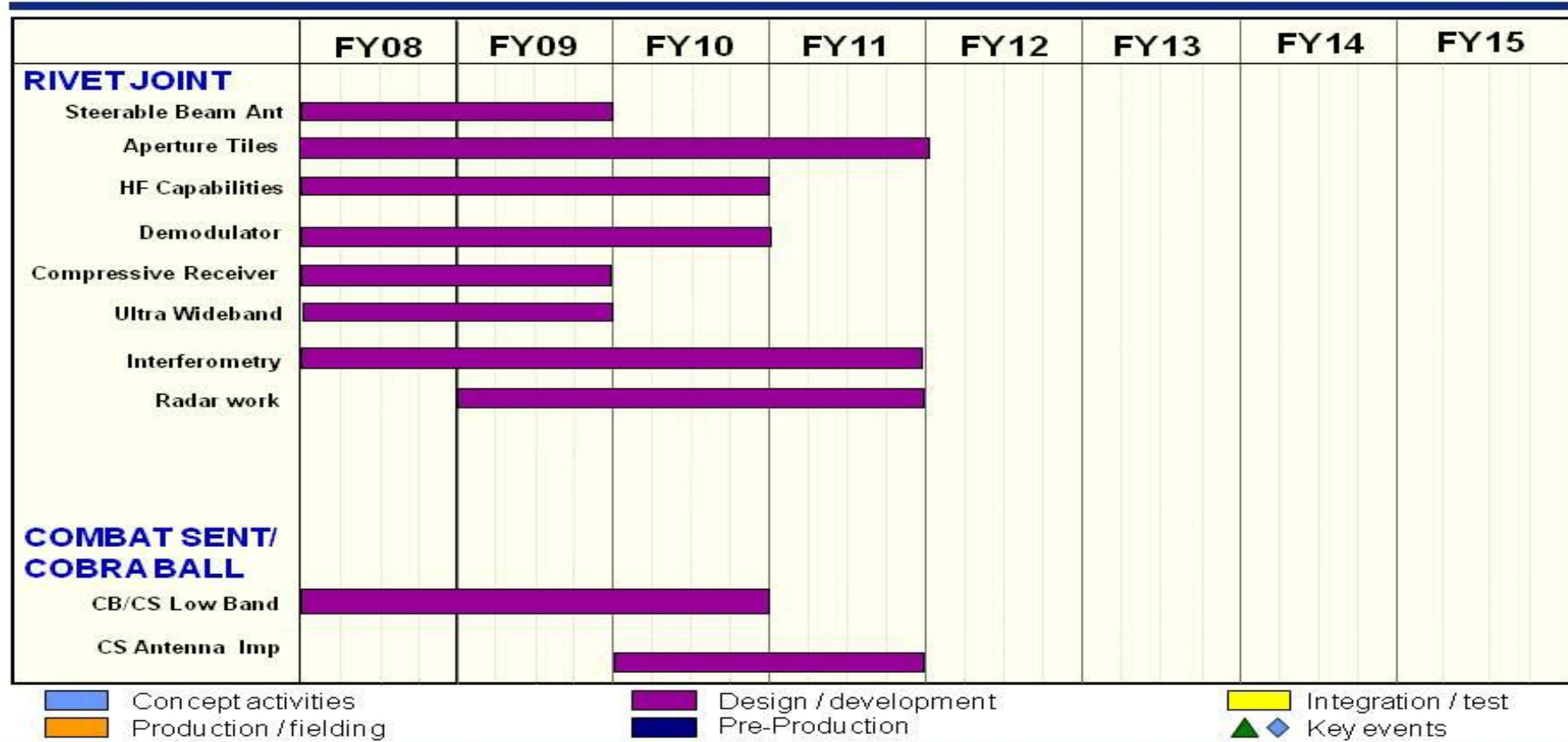
PE NUMBER AND TITLE

0304260F Airborne SIGINT Enterprise
(JMIP)

PROJECT NUMBER AND TITLE

5180 RC-135 (Airborne SIGINT
Development - RC-135)

RC-135 Development Efforts ASE PE



PB10 R-Docs

1

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Exhibit R-4 (PE 0304260F)

Project 5180

Exhibit R-4a, RDT&E Schedule Detail

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07 Operational System Development

PE NUMBER AND TITLE

0304260F Airborne SIGINT Enterprise
(JMIP)

PROJECT NUMBER AND TITLE

5180 RC-135 (Airborne SIGINT
Development - RC-135)(U) **Schedule Profile**FY 2008FY 2009FY 2010

(U) Development of RIVET JOINT mission sensors

1-4Q

1-4Q

1-4Q

(U) Development of COMBAT SENT mission sensors

1-4Q

1-4Q

(U) Development of COBRA BALL mission sensors

1-4Q

1-4Q

Details are classified and are shown in the classified portion of PE 0305207F

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0304260F Airborne SIGINT Enterprise (JMIP)			PROJECT NUMBER AND TITLE 5182 MQ-1/MQ-9 (Airborne SIGINT Development - Predator)		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
5182 MQ-1/MQ-9 (Airborne SIGINT Development - Predator)	13.533	2.710	59.886	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) MQ-1/9 SIGINT development efforts in the ASE PE began in FY07.

(U) **A. Mission Description and Budget Item Justification**

(U) This project supports design studies, engineering analysis, non-recurring engineering, and other efforts associated with the integration and modification of the MQ-1/MQ-9 SIGINT sensors and their associated air and ground components. This is an RTD&E effort to integrate SIGINT capability on to the MQ-1/MQ-9 platforms. The sensors shall be capable of collecting technical data and geolocating signals of interest and providing sensor data to a workstation. The integration effort shall include the use of existing sensor suites to the maximum extent possible to minimize design costs and reduce development time lines. Design efforts specific to the Predator or Reaper systems may include, but not be limited to, antennas, EMI reduction, encryption techniques, and changes to the aircraft, ground station, data link, and simulator necessary to accommodate a SIGINT payload and its data throughput.

(U) Funding will begin efforts on antennas, receivers, processors, software development, aircraft integration and ground station upgrades to allow a persistent reconnaissance, surveillance, targeting, and acquisition capability against mission specific threats. Development of a networked capability to other SIGINT platforms will also be initiated.

(U) In accordance with an evolutionary acquisition strategy, a series of ASIP incremental upgrades will begin preliminary design activities to support incremental software and hardware upgrades in FY10. These upgrades are designed to exploit evolving signals of interest to meet emerging operational requirements.

(U) This project provides the warfighter with increased combat capability as soon as technology and risk achieve satisfactory levels.

(U) This program effort is Budget Activity 7, Operational Systems Development, because it involves Air Force RDT&E necessary to field essential operational capabilities.

(U) **B. Accomplishments/Planned Program (\$ in Millions)**

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Signals Intelligence (SIGINT) Sensor Development/Integration for MQ-1/9	9.033	2.710	57.551
(U) ASIP Upgrade Increment 1 (COMINT Improvements)			2.335
(U) Special Projects	4.500		
(U) Total Cost	13.533	2.710	59.886

Exhibit R-2a, RDT&E Project Justification

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07 Operational System Development

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0304260F Airborne SIGINT Enterprise
(JMIP)

PROJECT NUMBER AND TITLE

5182 MQ-1/MQ-9 (Airborne SIGINT
Development - Predator)(U) C. Other Program Funding Summary (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) APAF (BP11)- 0305219F MQ-1		26.690	29.630							56.320

(U) D. Acquisition Strategy

(U) Signals Intelligence (SIGINT) capabilities will be integrated onto these platforms using an evolutionary acquisition approach.

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Exhibit R-3, RDT&E Project Cost Analysis

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07 Operational System Development

PE NUMBER AND TITLE

0304260F Airborne SIGINT Enterprise
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PROJECT NUMBER AND TITLE

5182 MQ-1/MQ-9 (Airborne SIGINT
Development - Predator)

(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &</u> <u>Type</u>	<u>Performing</u> <u>Activity &</u> <u>Location</u>	<u>Total</u> <u>Prior to FY</u> <u>2008</u> <u>Cost</u>	<u>FY 2008</u> <u>Cost</u>	<u>FY 2008</u> <u>Award</u> <u>Date</u>	<u>FY 2009</u> <u>Cost</u>	<u>FY 2009</u> <u>Award</u> <u>Date</u>	<u>FY 2010</u> <u>Cost</u>	<u>FY 2010</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	<u>Target Value</u> <u>of Contract</u>
(U) <u>Product Development</u> SIGINT Sensors Integration	CPFF	General Atomics, San Diego, CA		1.186	Jan-09	0.536	Jan-09			Continuing	TBD	TBD
SIGINT Sensors Development	Various	Northrop Grumman ESL, San Jose, CA	2.428	6.523	Apr-08	2.174	Dec-08	59.886	Jan-10	Continuing	TBD	TBD
Management, Various Integration Efforts, & Flight Test	Various	Various		5.824	Mar-08					Continuing	TBD	TBD
Subtotal Product Development			2.428	13.533		2.710		59.886		Continuing	TBD	TBD
Remarks:												
(U) Total Cost			2.428	13.533		2.710		59.886		Continuing	TBD	TBD

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Project 5182

Exhibit R-3 (PE 0304260F)

Exhibit R-4, RDT&E Schedule Profile

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07 Operational System Development

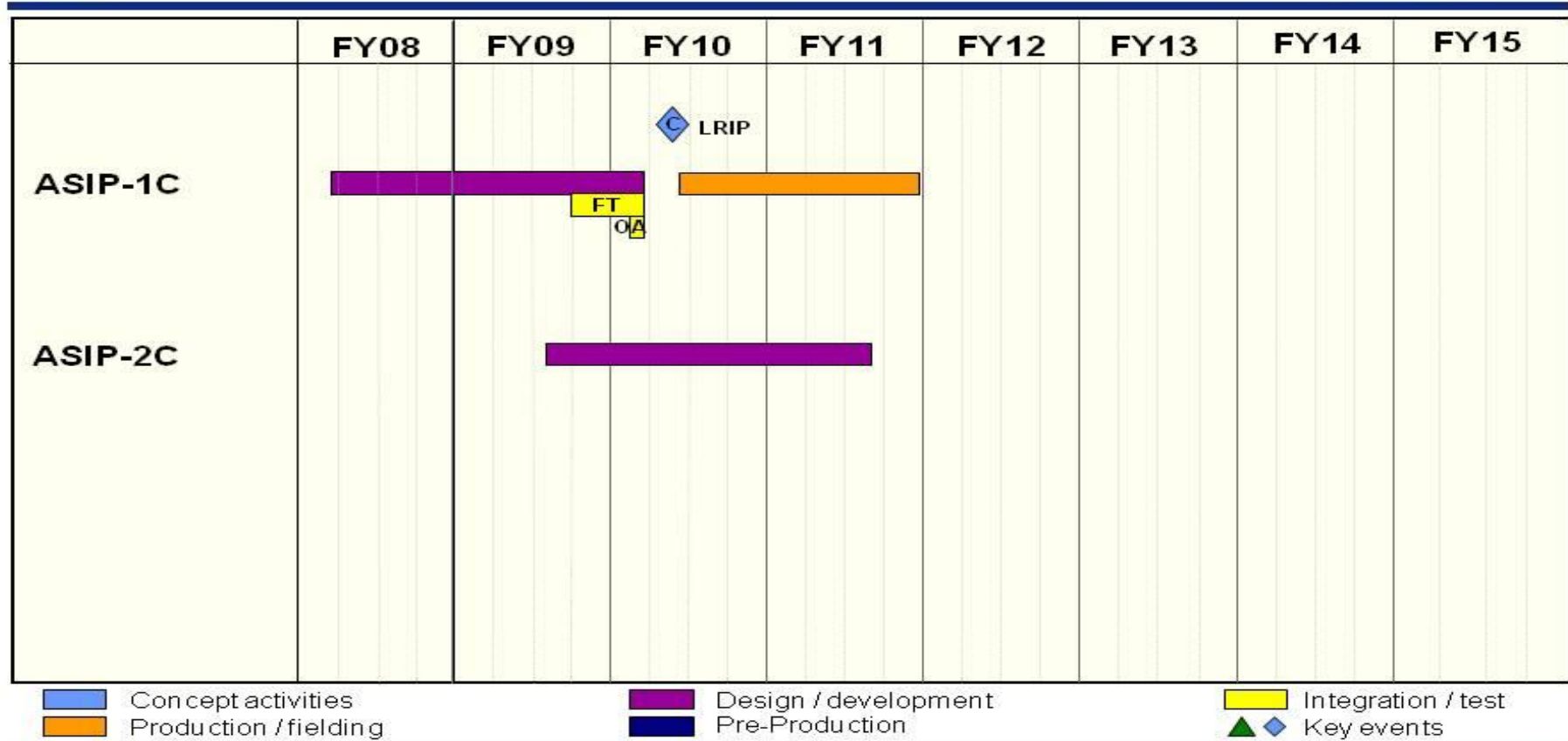
PE NUMBER AND TITLE

0304260F Airborne SIGINT Enterprise
(JMIP)

PROJECT NUMBER AND TITLE

5182 MQ-1/MQ-9 (Airborne SIGINT
Development - Predator)

ASIP-1C/2C Development Efforts ASE PE



PB10 R-Docs

Depicted by installation/production flow

1

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Exhibit R-4 (PE 0304260F)

Project 5182

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Exhibit R-4a, RDT&E Schedule Detail

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PE NUMBER AND TITLE

0304260F Airborne SIGINT Enterprise
(JMIP)

PROJECT NUMBER AND TITLE

5182 MQ-1/MQ-9 (Airborne SIGINT
Development - Predator)(U) Schedule ProfileFY 2008FY 2009FY 2010

(U) ASIP 1C Development & Flight Test

1-4Q

1-4Q

1Q

(U) ASIP 2C Development & Flight Test

1-4Q

1-4Q

1-4Q

Exhibit R-2a, RDT&E Project Justification								DATE May 2009		
BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0304260F Airborne SIGINT Enterprise (JMIP)			PROJECT NUMBER AND TITLE 5183 Common Development (Airborne SIGINT Development - Common Development)		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
5183 Common Development (Airborne SIGINT Development - Common Development)	45.130	65.440	32.837	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		
(U) This project supports the development of the Airborne Signals Intelligence payload (ASIP) sensors for use on multiple platforms as well as projects common to the ASE PE overall to include, but not limited to: Air Force Cryptologic Architecture (AFCA) maintenance, modeling and simulation efforts and NATO Signals Intelligence (SIGINT) efforts. (U) A. Mission Description and Budget Item Justification (U) This project supports design studies, engineering analysis, non-recurring engineering, and other efforts associated with the integration and modification of sensors and their associated air and ground components that will be used on/by more than one platform. The common development SIGINT cost element/BPAC supports development of new sensors and maintains present capability by developing replacements for current components affected by diminishing manufacturing sources as well as enhancing capability via incremental development to exploit evolving signals of interest to meet emerging operational requirements. The current sensors being developed are the Airborne Signals Intelligence Payload (ASIP) (which has completed developmental testing on the U-2 and is being tested on the Global Hawk (RQ-4)), and the scalable ASIP payloads for the MQ-1 (ASIP 1C) and the MQ-9 (ASIP 2C). The systems' open architecture and Joint Airborne SIGINT Architecture (JASA) compliant design supports streamlined integration of ASIP onto additional ISR platforms. (U) The ASIP Family of Systems will design and build a common/scalable SIGINT system designed for maximum coverage of the electromagnetic spectrum through the use of an integrated high and low band system. ASIP will deliver developmental units for integration and test on both the RQ-4 and U-2. ASIP 1C and ASIP 2C will deliver developmental units (DUs) for integration and test on the MQ-1 and MQ-9. U-2 test articles completed integration and test in 4Q FY06, began flight test in 1Q FY07, and completed flight test in 3Q FY08. The Global Hawk DU began flight test in 4Q FY08 and is scheduled to complete flight testing in 1Q FY10. In accordance with an evolutionary acquisition strategy, a series of ASIP incremental upgrades will begin preliminary design activities to support incremental software and hardware upgrades in FY09. These upgrades will begin with the COMINT improvements program and will continue with individual development efforts to exploit signals of interest identified as operational requirements and as prioritized by the Air Force SIGINT Capabilities Working Group. (U) This strategy provides the warfighter with a near term combat capability with increased capability improvements accomplished based on the evolving threat as soon as technology and risk achieve satisfactory levels. Sensors will be integrated and tested on the various platforms as funding permits. (U) This program effort is Budget Activity 7, Operational Systems Development, because it involves Air Force RDT&E necessary to field essential operational capabilities.										

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Exhibit R-2a, RDT&E Project Justification								DATE May 2009					
BUDGET ACTIVITY 07 Operational System Development				PE NUMBER AND TITLE 0304260F Airborne SIGINT Enterprise (JMIP)			PROJECT NUMBER AND TITLE 5183 Common Development (Airborne SIGINT Development - Common Development)						
(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>							<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>				
(U) ASIP Baseline Development/Integration							32.062	27.505					
(U) ASIP Upgrade Increment 1 (COMINT Improvements)								5.692	27.636				
(U) ASIP Upgrade Increment 3													
(U) ASIP 1C/2C Development/Integration							9.000	29.843	2.601				
(U) Various SIGINT Architecture Efforts							1.468	2.400	2.600				
(U) Various NATO SIGINT Efforts							1.600						
(U) Special Projects (JUON) & Other Various SIGINT Efforts							1.000						
(U) Total Cost							45.130	65.440	32.837				
(U) <u>C. Other Program Funding Summary (\$ in Millions)</u>													
				<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
				<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) APAF (BP10)- 0305220F-RQ-4 Sensor Integration- Sensor Development					63.826	65.121							128.947
(U) APAF (BP11)- 0305220F-RQ-4 Sensor Integration- Sensor Development				18.167	89.485	129.613							237.265
(U) APAF (BP11)- 0305219F MQ-1					26.690	29.630							56.320
Note: Additional procurement funding for GH ASIP spares, support equipment, & depot activation costs is TBD.													
(U) <u>D. Acquisition Strategy</u>													
Signals Intelligence (SIGINT) capabilities will be developed and integrated onto various platforms using an evolutionary acquisition approach.													

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BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0304260F Airborne SIGINT Enterprise (JMIP)					PROJECT NUMBER AND TITLE 5183 Common Development (Airborne SIGINT Development - Common Development)				
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2008 Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost to Complete	Total Cost	Target Value of Contract		
(U) Product Development														
(U) ASIP Baseline Development/Integration	CPAF	Northrop Grumman, San Jose, CA	84.333	21.881	Nov-07	14.392	Jan-09				120.606	TBD		
(U) ASIP Baseline Development/Integration	CPIF	Lockheed Martin Aeronautics, Palmdale, CA	17.569	0.212	Dec-07	0.171	Jan-09				17.952	TBD		
(U) ASIP Baseline Development/Integration (AFDCGS Integration)	CPIF	Lockheed Martin Astronautics, Denver, CO	8.530	3.405	Jan-08	3.965	Jan-09				15.899	TBD		
(U) ASIP Baseline Development/Integration (AFDCGS Integration)	CPIF	Raytheon, Falls Church, VA	12.756	3.233	Nov-07	2.737	Jan-09				18.727	TBD		
(U) ASIP Upgrades Development/Integration	TBD	Northrop Grumman, San Jose, CA				5.692	Aug-09	27.636	Jan-10	Continuing	TBD	TBD		
(U) ASIP 1C/2C Development/Integration	CPIF	Northrop Grumman, San Jose, CA		9.000	Apr-08	21.495	Dec-08	2.601	Oct-09		33.096			
(U) ASIP 1C/2C Development/Integration (MQ-1 Integration)	CPFF	General Atomic Aeronautical Systems, Inc				3.422	Jan-09				3.422	TBD		
(U) High Band System			4.874								4.874			
(U) Various SIGINT Architecture Efforts	Various	Various	1.338	1.468	Jan-08	2.400	Jan-09	2.600	Jan-10	Continuing	TBD	TBD		
(U) Various NATO SIGINT Efforts	Various	Various		1.600	Aug-08						1.600			
(U) Management, Various Integration Efforts, & Flight Test	Various	Various	8.745	3.331	Dec-07	11.166	Jan-09			Continuing	TBD	TBD		
(U) Special Projects (JUON)	TBD	TBD		1.000	Jan-09						1.000			
Subtotal Product Development			138.144	45.130		65.440		32.837		Continuing	TBD	TBD		
Remarks:														
(U) Total Cost			138.144	45.130		65.440		32.837		Continuing	TBD	TBD		
R-1 Line Item No. 179														
Project 5183														
Page-15 of 30														
Exhibit R-3 (PE 0304260F)														

R-1 Line Item No. 179

Page-15 of 30

Exhibit R-3 (PE 0304260F)

Exhibit R-4, RDT&E Schedule Profile

DATE

May 2009

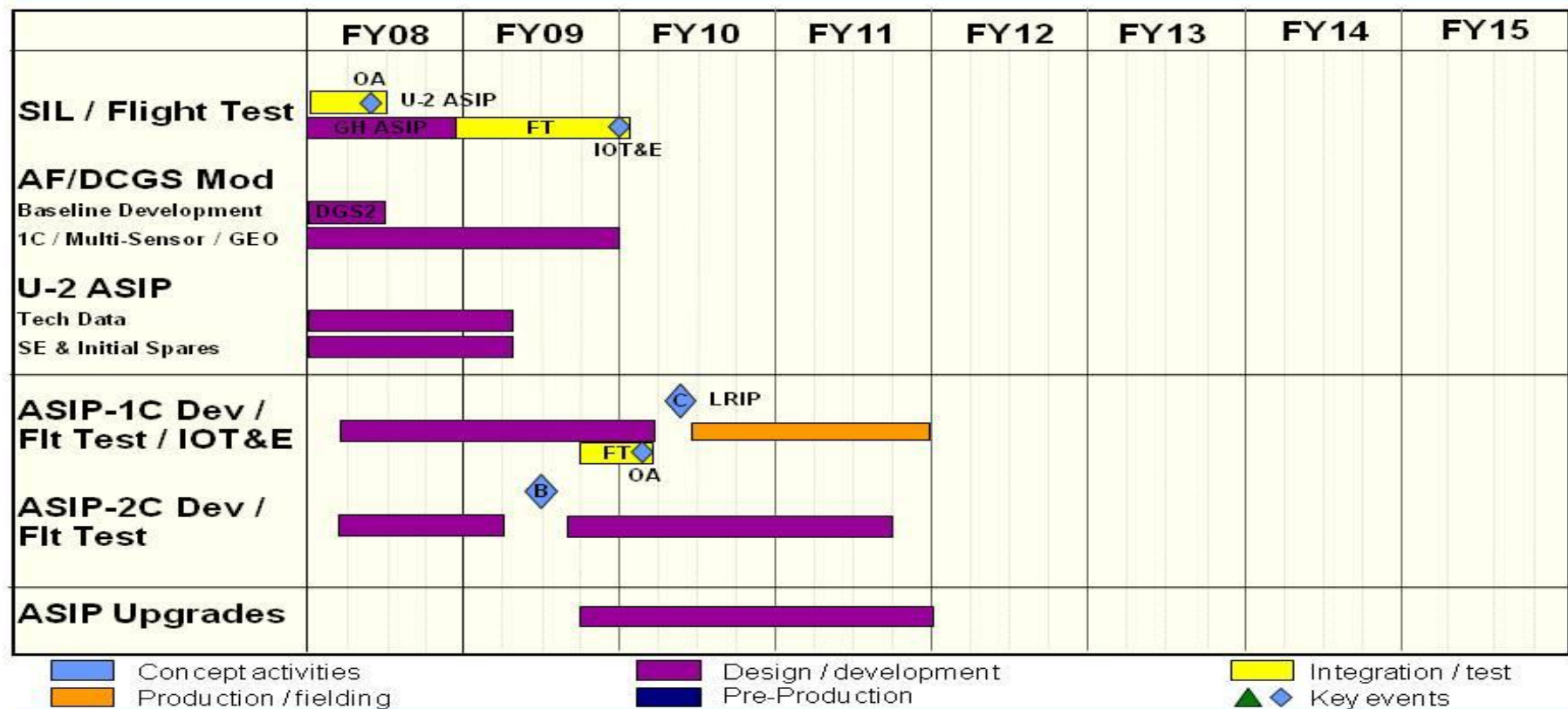
BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0304260F Airborne SIGINT Enterprise
(JMIP)

PROJECT NUMBER AND TITLE
5183 Common Development
(Airborne SIGINT Development -
Common Development)



ASIP Common Development Schedule



PB10 R-Docs

Depicted by installation/production flow

1

Exhibit R-4a, RDT&E Schedule Detail		DATE	
		May 2009	
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT NUMBER AND TITLE	
07 Operational System Development	0304260F Airborne SIGINT Enterprise (JMIP)	5183 Common Development (Airborne SIGINT Development - Common Development)	
(U) <u>Schedule Profile</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) ASIP U-2 System Integration Lab (SIL) & Flight Test (FT)	1-2Q		
(U) ASIP GH SIL & FT	1-4Q	1-4Q	1Q
(U) AF DCGS Development- ASIP U-2	1-2Q		
(U) AF DCGS Development- ASIP 1C (Multi-Sensor & GEO)	1-4Q	1-4Q	
(U) ASIP U-2 Tech Data	1-4Q	1-2Q	
(U) ASIP U-2 Support Equipment & Initial Spares	1-4Q	1-2Q	
(U) ASIP 1C Development & Flight Test	1-4Q	1-4Q	1Q
(U) ASIP 2C Development & Flight Test	1-4Q	1-4Q	1-4Q
(U) ASIP Upgrades		4Q	1-4Q

Exhibit R-2a, RDT&E Project Justification

DATE

May 2009

BUDGET ACTIVITY					PE NUMBER AND TITLE			PROJECT NUMBER AND TITLE		
07 Operational System Development					0304260F Airborne SIGINT Enterprise (JMIP)			5184 RQ-4 (Airborne SIGINT Development - Global Hawk)		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
5184 RQ-4 (Airborne SIGINT Development - Global Hawk)	10.817	41.803	29.099	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) This project covers RQ-4 SIGINT development integration in the ASE PE.

(U) **A. Mission Description and Budget Item Justification**

(U) This project supports sensor integration and test, flight test, design studies, engineering analysis and non-recurring engineering of the air and ground components for the Global Hawk SIGINT sensors.

(U) This project provides the warfighter with a near-term combat capability with increased capability improvements implemented as soon as technology and risk achieve satisfactory levels. The current sensor being developed for the Global Hawk SIGINT capability is the Airborne Signals Intelligence Payload (ASIP). In accordance with an evolutionary acquisition strategy, a series of ASIP incremental upgrades will begin preliminary design activities to support incremental software and hardware upgrades in FY09. These upgrades are designed to exploit service priorities for signals of interest and recognized operational requirements.

(U) Funding includes completion of developmental logistics tasks associated with the design, development, and integration of ASIP. Additional requirements include the Logistics Support Analysis (LSA) Taskings which consists of design and development of support equipment, technical orders, training courses/aids/devices, and shipping containers common to ASIP for U-2 and Global Hawk.

(U) This program effort is equivalent to RDT&E budget activity 7, Operational Systems Development, because it involves Air Force R&D necessary to field essential operational capabilities.

(U) **B. Accomplishments/Planned Program (\$ in Millions)**

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) ASIP Baseline- Development/Integration for GH Aircraft	10.817	10.703	
(U) ASIP Upgrade Increment 1 (COMINT Improvements)			5.599
(U) ASIP LSA Taskings		31.100	23.500
(U) Total Cost	10.817	41.803	29.099

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) APAF (BP10)- 0305220F-RQ-4 Sensor Integration- Sensor Development		63.826	65.121							128.947

R-1 Line Item No. 179

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Project 5184

Exhibit R-2a (PE 0304260F)

Exhibit R-2a, RDT&E Project Justification

DATE

May 2009

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0304260F Airborne SIGINT Enterprise
(JMIP)

PROJECT NUMBER AND TITLE

5184 RQ-4 (Airborne SIGINT
Development - Global Hawk)(U) C. Other Program Funding Summary (\$ in Millions)

(U) APAF (BP11)-

0305220F-RQ-4 Sensor	18.167	89.485	129.613	237.265
Integration- Sensor				
Development				

(U) D. Acquisition Strategy

(U) Signals Intelligence (SIGINT) capabilities will be integrated on to this platform using an Evolutionary Acquisition approach.

Exhibit R-3, RDT&E Project Cost Analysis										DATE May 2009		
BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0304260F Airborne SIGINT Enterprise (JMIP)					PROJECT NUMBER AND TITLE 5184 RQ-4 (Airborne SIGINT Development - Global Hawk)		
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2008 Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) <u>Product Development</u>												
ASIP Baseline- Development/Integration for GH aircraft	CPAF	Northrop Grumman Mission Sys, San Jose, CA	15.437	10.817	Oct-07						26.254	TBD
ASIP Upgrade Increment 1 (COMINT Improvements)	TBD	Northrop Grumman Mission Sys, San Jose, CA				10.703	Aug-09	5.599	Jan-10	Continuing	TBD	TBD
ASIP LSA Taskings	TBD	Northrop Grumman Mission Sys, San Jose, CA				30.930	Feb-09	23.500	Jan-10	Continuing	TBD	TBD
Management, Various Integration Efforts, & Flight Test						0.170	Feb-09				0.170	
Subtotal Product Development			15.437	10.817		41.803		29.099		Continuing	TBD	TBD
Remarks:												
(U) Total Cost			15.437	10.817		41.803		29.099		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE

May 2009

BUDGET ACTIVITY

07 Operational System Development

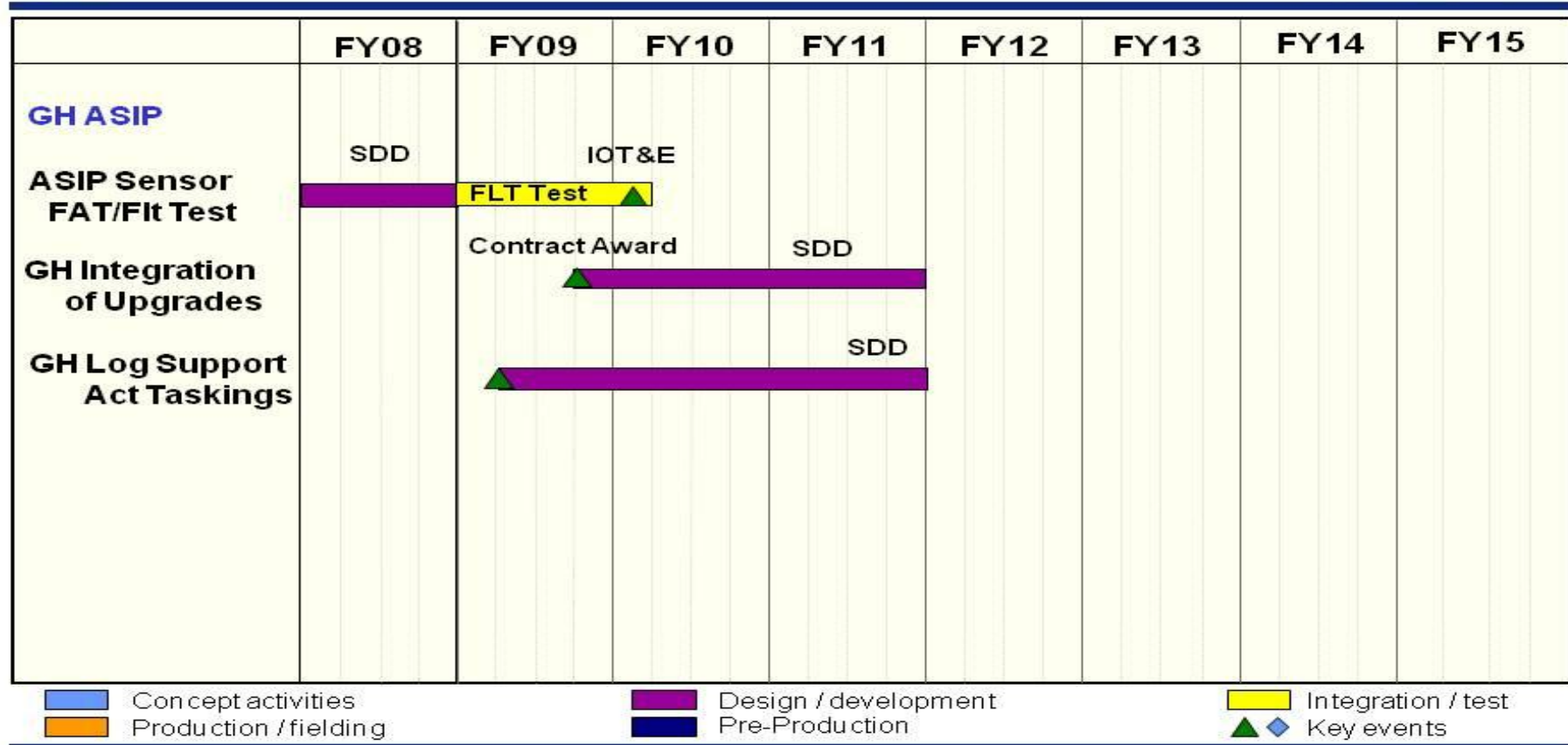
PE NUMBER AND TITLE

0304260F Airborne SIGINT Enterprise
(JMIP)

PROJECT NUMBER AND TITLE

5184 RQ-4 (Airborne SIGINT
Development - Global Hawk

RQ-4 Global Hawk ASIP ASE PE



PB10 R-Docs

1

R-1 Line Item No. 179

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Exhibit R-4 (PE 0304260F)

Project 5184

Exhibit R-4a, RDT&E Schedule Detail

DATE

May 2009

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0304260F Airborne SIGINT Enterprise
(JMIP)

PROJECT NUMBER AND TITLE

5184 RQ-4 (Airborne SIGINT
Development - Global Hawk)(U) Schedule ProfileFY 2008FY 2009FY 2010

(U) GH ASIP Sensor Factory Acceptance Test & Flight Test

1-4Q

1-4Q

1Q

(U) GH ASIP Upgrade Increment 1 (COMINT Improvements)

4Q

1-4Q

(U) GH ASIP LSA Taskings

2-4Q

1-4Q

Exhibit R-2a, RDT&E Project Justification									DATE May 2009	
BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0304260F Airborne SIGINT Enterprise (JMIP)			PROJECT NUMBER AND TITLE 5185 Compass Bright (Airborne SIGINT Development - Compass Bright)		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
5185 Compass Bright (Airborne SIGINT Development - Compass Bright)	8.430	8.750	5.913	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		
Funding decreased in FY10 to reflect the SIGINT Capabilities Working Group (SCWG) priorities and the accomplishment of other ASE initiatives.										
(U) <u>A. Mission Description and Budget Item Justification</u> (U) The COMPASS BRIGHT program develops, demonstrates, and rapidly transitions advanced Air Force-specific SIGINT and radio frequency (RF) measurement and signature intelligence (MASINT) capabilities against emerging and future target signals. It is the only USAF program that pursues SIGINT and RF MASINT technology transition. (U) The COMPASS BRIGHT program objective is to develop technologies for application in SIGINT and RF MASINT systems/subsystems. Acquisition and production of these developed technologies will occur within the appropriate platform programs. (U) Compass Bright projects are selected through a data call process whereby the USAF evaluates proposals from the labs and industry to select those projects that are most promising. (U) This program is categorized as Budget Activity 7 because it provides for development of technologies and capabilities in support of operational system development.										
(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>							<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
(U) Continue COMPASS BRIGHT development projects in the signals intelligence (SIGINT) and radio frequency (RF) measurement and signature intelligence (MASINT) areas							7.615	7.855	5.018	
(U) Mission Support, Program Management Activities							0.815	0.895	0.895	
(U) Total Cost							8.430	8.750	5.913	
(U) <u>C. Other Program Funding Summary (\$ in Millions)</u>										
	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) N/A										
(U) <u>D. Acquisition Strategy</u>										
(U) Ongoing COMPASS BRIGHT technology development and demonstration contracts will continue through existing laboratory relationships and other existing contractual vehicles, with future development projects emphasizing full and open competition.										

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Exhibit R-3, RDT&E Project Cost Analysis

DATE

May 2009

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0304260F Airborne SIGINT Enterprise
(JMIP)

PROJECT NUMBER AND TITLE

5185 Compass Bright (Airborne
SIGINT Development - Compass
Bright)

(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &</u> <u>Type</u>	<u>Performing</u> <u>Activity &</u> <u>Location</u>	<u>Total</u> <u>Prior to FY</u> <u>2008</u> <u>Cost</u>	<u>FY 2008</u> <u>Cost</u>	<u>FY 2008</u> <u>Award</u> <u>Date</u>	<u>FY 2009</u> <u>Cost</u>	<u>FY 2009</u> <u>Award</u> <u>Date</u>	<u>FY 2010</u> <u>Cost</u>	<u>FY 2010</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	<u>Target Value</u> <u>of Contract</u>
(U) <u>Product Development</u>												
Various	Various	AFRL	7.478	7.615	Jul-08	7.855	Oct-08	5.018	Oct-09	Continuing	TBD	TBD
Subtotal Product Development			7.478	7.615		7.855		5.018		Continuing	TBD	TBD
Remarks:												
(U) <u>Management</u>												
ASC/303 AESW (Aeronautical Systems Wing)		WPAFB, OH	0.709	0.815		0.895		0.895		Continuing	TBD	TBD
Subtotal Management			0.709	0.815		0.895		0.895		Continuing	TBD	TBD
Remarks:												
(U) Total Cost			8.187	8.430		8.750		5.913		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE

May 2009

BUDGET ACTIVITY

07 Operational System Development

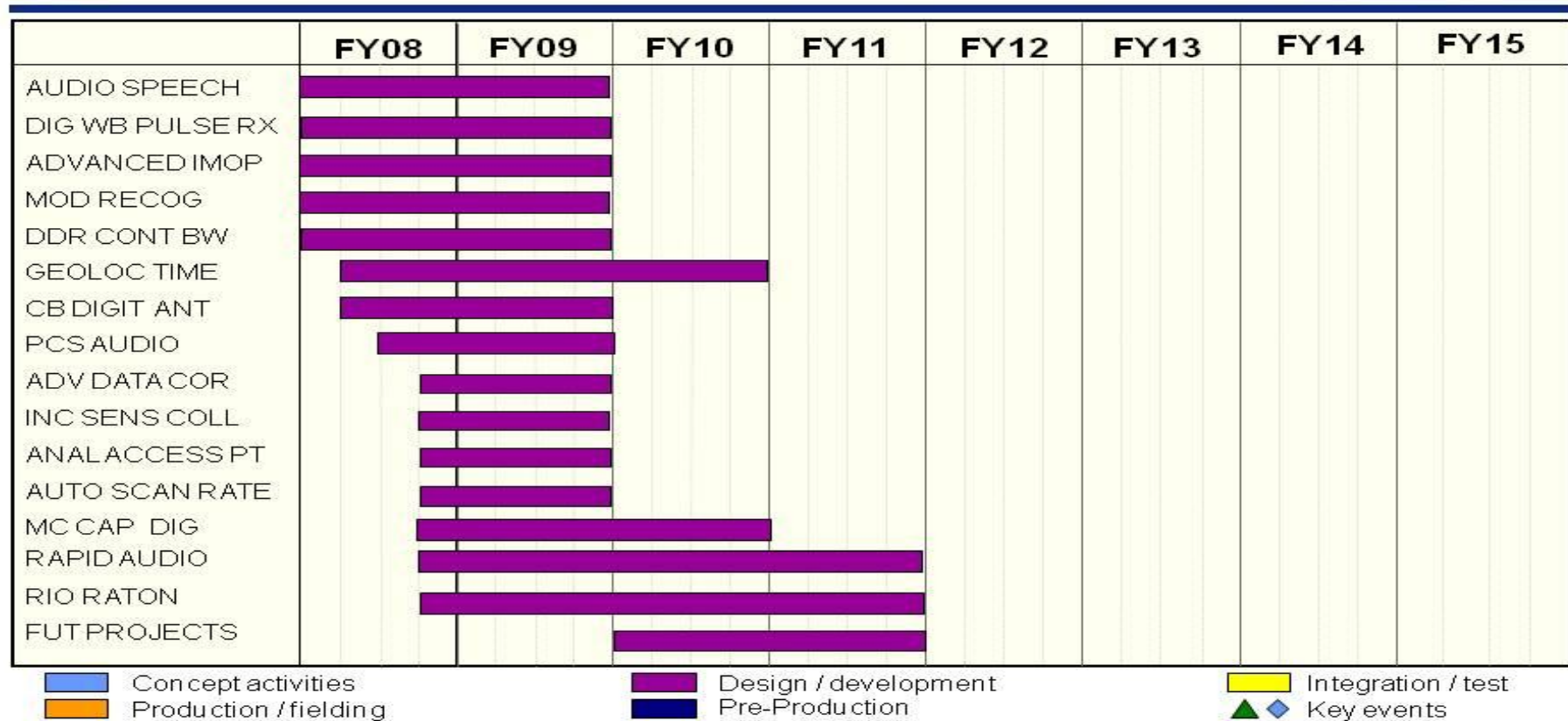
PE NUMBER AND TITLE

0304260F Airborne SIGINT Enterprise
(JMIP)

PROJECT NUMBER AND TITLE

5185 Compass Bright (Airborne
SIGINT Development - Compass
Bright)

Compass Bright Schedule ASE PE



PB10 R-Docs

Depicted by installation/production flow

1

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Exhibit R-4a, RDT&E Schedule Detail		DATE
		May 2009
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT NUMBER AND TITLE
07 Operational System Development	0304260F Airborne SIGINT Enterprise (JMIP)	5185 Compass Bright (Airborne SIGINT Development - Compass Bright)
(U) <u>Schedule Profile</u>	<u>FY 2008</u>	<u>FY 2009</u> <u>FY 2010</u>
(U) Wide Screen	1-2Q	
(U) Audio Speech Privacy ID Detector	1-4Q	1-4Q
(U) Event Detection Receiver	1-4Q	
(U) Ultra Sensitive Receiver	1-4Q	
(U) Composite View	1-4Q	
(U) Digital Wideband Pulse Reciever	1-4Q	1-4Q 1Q
(U) PCS Audio Speaker Search System	3-4Q	1-4Q
(U) Advanced IMOP Classifier	1-4Q	1-4Q
(U) Modulation Recognition Using Cell Processors	1-4Q	1-4Q
(U) DDR Continuous Recording Bandwidth Improvement	1-4Q	1-4Q
(U) Geolocation Time Experiment (Geo/Timex)	2-4Q	1-4Q 1-4Q
(U) Cobra Ball Digitizing Antenna	2-4Q	1-4Q
(U) Multi-Channel Capabilities for Digital SIGNIT System	4Q	1-4Q 1-4Q
(U) Rio Raton Digital Receiver	4Q	1-4Q 1-4Q
(U) Automated Scan Rate Determination	4Q	1-4Q
(U) Rapid Audio Batch Toolkit (RABT)	4Q	1-4Q 1-4Q
(U) Analyst Access Point	4Q	1-4Q
(U) Advanced Data Correlation	4Q	1-4Q
(U) Increased Sensitivity for Specialized Collections	4Q	1-4Q
(U) Future SIGINT Projects		2-4Q 1-4Q

R-1 Line Item No. 179

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Exhibit R-4a (PE 0304260F)

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Exhibit R-2a, RDT&E Project Justification								DATE May 2009																																															
BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0304260F Airborne SIGINT Enterprise (JMIP)			PROJECT NUMBER AND TITLE 5186 Special Programs (Airborne SIGINT Development - Special Platforms)																																															
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total																																													
5186 Special Programs (Airborne SIGINT Development - Special Platforms)	11.375	5.499	6.635	0.000	0.000	0.000	0.000	0.000	Continuing	TBD																																													
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0																																															
(U) This project will be used to fund SIGINT development efforts in programs such as SENIOR SCOUT, Small UAVs and others. (U) A. Mission Description and Budget Item Justification (U) This project supports special SIGINT studies as well as the development and integration of advanced SIGINT capabilities on Senior Scout and other classified platforms. Through extensive utilization of COTS-based solutions to fielding of needed capabilities, it also incurs the need for continuous diminishing manufacturing sources integration efforts consistent with the COTS technology cycle. (U) Senior Scout development efforts will include antenna improvements, sensitivity upgrades, and radio frequency distribution upgrades. Additionally, development will begin to allow this platform to network with other SIGINT assets to increase collection accuracy. (U) This project provides the warfighter with a near term combat capability with increased capability improvements accomplished as soon as technology and risk achieve satisfactory levels. Sensors will be integrated and tested on various platforms as funding permits. (U) Budget Activity Justification: This program effort is Budget Activity 7, Operational Systems Development, because it involves Air Force RDT&E necessary to field essential operational capabilities. <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">(U) B. Accomplishments/Planned Program (\$ in Millions)</td> <td style="width: 10%; text-align: center;"><u>FY 2008</u></td> <td style="width: 10%; text-align: center;"><u>FY 2009</u></td> <td style="width: 10%; text-align: center;"><u>FY 2010</u></td> </tr> <tr> <td>(U) Signals Intelligence (SIGINT) Sensor Integration</td> <td style="text-align: center;">11.375</td> <td style="text-align: center;">5.499</td> <td style="text-align: center;">6.635</td> </tr> <tr> <td>(U) Total Cost</td> <td style="text-align: center;">11.375</td> <td style="text-align: center;">5.499</td> <td style="text-align: center;">6.635</td> </tr> </table> (U) C. Other Program Funding Summary (\$ in Millions) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 8%; text-align: center;"><u>FY 2008</u></td> <td style="width: 8%; text-align: center;"><u>FY 2009</u></td> <td style="width: 8%; text-align: center;"><u>FY 2010</u></td> <td style="width: 8%; text-align: center;"><u>FY 2011</u></td> <td style="width: 8%; text-align: center;"><u>FY 2012</u></td> <td style="width: 8%; text-align: center;"><u>FY 2013</u></td> <td style="width: 8%; text-align: center;"><u>FY 2014</u></td> <td style="width: 8%; text-align: center;"><u>FY 2015</u></td> <td style="width: 8%; text-align: center;"><u>Cost to</u></td> <td style="width: 10%; text-align: center;"><u>Total Cost</u></td> </tr> <tr> <td></td> <td style="text-align: center;"><u>Actual</u></td> <td style="text-align: center;"><u>Estimate</u></td> <td style="text-align: center;"><u>Estimate</u></td> <td style="text-align: center;"><u>Estimate</u></td> <td style="text-align: center;"><u>Estimate</u></td> <td style="text-align: center;"><u>Estimate</u></td> <td style="text-align: center;"><u>Estimate</u></td> <td style="text-align: center;"><u>Estimate</u></td> <td style="text-align: center;"><u>Complete</u></td> <td></td> </tr> <tr> <td>(U) 0503115F</td> <td style="text-align: center;">3.671</td> <td style="text-align: center;">3.970</td> <td style="text-align: center;">4.063</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">Continuing</td> <td style="text-align: center;">TBD</td> </tr> </table> (U) D. Acquisition Strategy (U) Signals Intelligence (SIGINT) capabilities will be integrated on to various classified platforms using an Evolutionary Acquisition approach.											(U) B. Accomplishments/Planned Program (\$ in Millions)	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	(U) Signals Intelligence (SIGINT) Sensor Integration	11.375	5.499	6.635	(U) Total Cost	11.375	5.499	6.635		<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>		<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>		(U) 0503115F	3.671	3.970	4.063						Continuing	TBD
(U) B. Accomplishments/Planned Program (\$ in Millions)	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>																																																				
(U) Signals Intelligence (SIGINT) Sensor Integration	11.375	5.499	6.635																																																				
(U) Total Cost	11.375	5.499	6.635																																																				
	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>																																													
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>																																														
(U) 0503115F	3.671	3.970	4.063						Continuing	TBD																																													

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis

DATE

May 2009

BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE				
07 Operational System Development				0304260F Airborne SIGINT Enterprise (JMIP)				5186 Special Programs (Airborne SIGINT Development - Special Platforms)				
(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>SIGINT Sensor Development</u>												
LM IS&GS	Various	Denver CO	2.307	4.665	Apr-08	3.644	Dec-08	4.000	Dec-09	Continuing	TBD	TBD
Subtotal SIGINT Sensor Development			2.307	4.665		3.644		4.000		Continuing	TBD	TBD
Remarks:												
(U) <u>SIGINT Sensor Development</u>												
Zeta Associates	Various	Fairfax VA	1.905	1.745	Oct-07	1.855	Oct-08	2.635	Dec-09	Continuing	TBD	TBD
Subtotal SIGINT Sensor Development			1.905	1.745		1.855		2.635		Continuing	TBD	TBD
Remarks:												
(U) <u>SIGINT Sensor Fusion and Dissemination</u>												
L-3 West	Various	Salt Lake City, UT	0.000	4.965	Apr-08	0.000		0.000		Continuing	TBD	TBD
Subtotal SIGINT Sensor Fusion and Dissemination			0.000	4.965		0.000		0.000		Continuing	TBD	TBD
Remarks:												
(U) Total Cost			4.212	11.375		5.499		6.635		Continuing	TBD	TBD

R-1 Line Item No. 179

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Project 5186

Exhibit R-3 (PE 0304260F)

Exhibit R-4, RDT&E Schedule Profile

DATE

May 2009

BUDGET ACTIVITY

07 Operational System Development

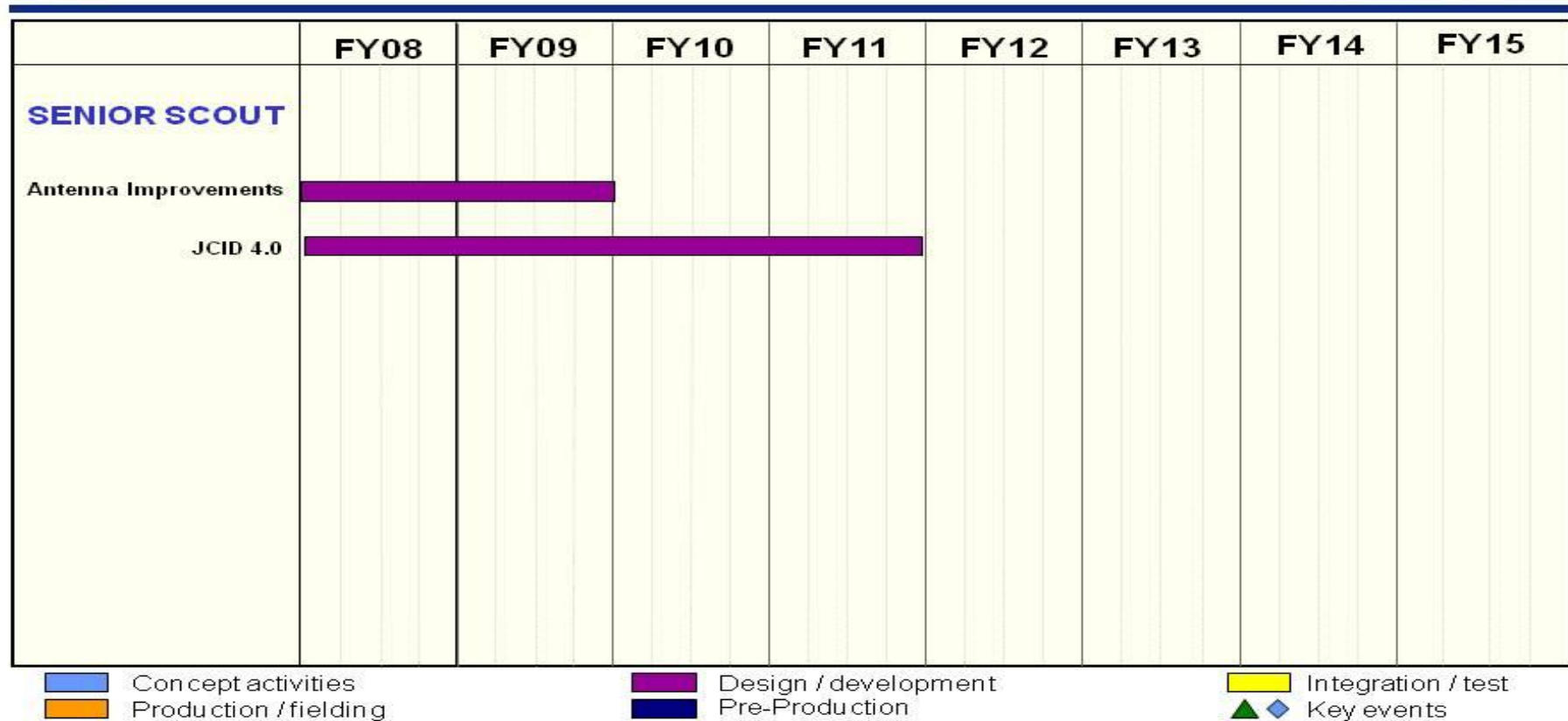
PE NUMBER AND TITLE

0304260F Airborne SIGINT Enterprise
(JMIP)

PROJECT NUMBER AND TITLE

5186 Special Programs (Airborne
SIGINT Development - Special
Platforms)

Special Projects Development Efforts ASE PE



PB10 R-Docs

1

Exhibit R-4a, RDT&E Schedule Detail

DATE

May 2009

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0304260F Airborne SIGINT Enterprise
(JMIP)

PROJECT NUMBER AND TITLE

5186 Special Programs (Airborne
SIGINT Development - Special
Platforms)(U) Schedule ProfileFY 2008FY 2009FY 2010

(U) Antenna Improvements

1-4Q

1-4Q

(U) JCID 4.0

1-4Q

1-4Q

1-4Q