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Exhibit R-2, RDT&E Budget Item Justification: 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 0304260F: Airborne SIGINT Enterprise							
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	-	108.313	129.106	117.110	-	117.110	136.119	136.339	133.703	136.109	Continuing	Continuing
675180: RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint)	-	34.809	40.160	32.331	-	32.331	13.185	35.243	36.810	37.472	Continuing	Continuing
675181: High Altitude SIGINT Development - High Altitude	-	0.000	0.000	4.066	-	4.066	6.004	7.177	7.271	7.402	Continuing	Continuing
675182: Medium Altitude SIGINT Development - Medium Altitude	-	25.874	35.340	19.818	-	19.818	28.354	27.561	33.198	33.795	Continuing	Continuing
675183: Common Development (Airborne SIGINT Development - Common Development)	-	38.855	45.403	53.544	-	53.544	80.739	46.722	36.218	36.870	Continuing	Continuing
675184: RQ-4 (Airborne SIGINT Development - Global Hawk)	-	2.108	0.998	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
675185: Compass Bright (Airborne SIGINT Development - Compass Bright)	-	6.169	6.324	7.351	-	7.351	7.837	7.865	8.115	8.261	Continuing	Continuing
675186: Special Programs (Airborne SIGINT Development - Special Platforms)	-	0.498	0.881	0.000	-	0.000	0.000	11.771	12.091	12.309	Continuing	Continuing
MDAP/MAIS Code(s): 375												
[#] 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, 675184, RQ-4, efforts were transferred to 675181, High Altitude SIGINT, in order to provide visibility into all activities for both manned and unmanned high altitude platforms.												
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												

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0304260F: <i>Airborne SIGINT Enterprise</i>
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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 and Air Force 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.

(U) This enterprise will use the Air Force Cryptologic Architecture (AFCA) for planning and decision-making and, in turn, employ open architecture standards whenever possible 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. Funds in any project may be used to fund initiatives in other projects within this PE at the discretion of the SCWG. 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 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.

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	108.313	129.106	127.986	-	127.986
Current President's Budget	108.313	129.106	117.110	-	117.110
Total Adjustments	0.000	0.000	-10.876	-	-10.876
• 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	-10.876	-	-10.876

Change Summary Explanation

Reduction of \$10.876M in FY14 due to higher AF priorities

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Exhibit R-2A, RDT&E Project Justification: 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 0304260F: Airborne SIGINT Enterprise				PROJECT 675180: RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint)			
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
675180: RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint)	-	34.809	40.160	32.331	-	32.331	13.185	35.243	36.810	37.472	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												
PMA costs for the RC-135 project are paid for in the Manned Reconnaissance PE, 0305207F.												
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 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. These efforts provide the required engineering for preliminary assessments of technical feasibility, operability, or military utility as well as specific engineering implementations integrated into the various baseline modifications. 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) 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.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: SIGINT Development									34.809	40.160	32.331	
Description: Non-Recurring Engineering (NRE) for the RC-135 SIGINT Systems. See Classified Budget Exhibits (PE 0305207F)												
FY 2012 Accomplishments: Continued SIGINT development efforts for the RC-135 fleet including new signal development.												
FY 2013 Plans: Continue SIGINT development efforts for the RC-135 fleet to include new signal sets and upgrades to current capabilities.												
FY 2014 Plans:												

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Exhibit R-2A, RDT&E Project 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 0304260F: <i>Airborne SIGINT Enterprise</i>				PROJECT 675180: <i>RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint)</i>				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
Will continue SIGINT development efforts for the RC-135 fleet to include new signal sets and upgrades to current capabilities.												
Accomplishments/Planned Programs Subtotals										34.809	40.160	32.331
C. 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	
• APAF: BA05: Line Item # DARP01: RC-135	162.211	165.237	171.813		171.813	174.256	177.641	180.887	184.143	Continuing	Continuing	
Remarks												
(U) The 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. Not all Procurement funds in PE 0305207F are for ASE SIGINT projects.												
D. Acquisition Strategy												
(U) Aircraft, aircraft sensor systems, and associated ground support system modifications planned include the procurement, fielding and logistical support for future RIVET JOINT, COMBAT SENT and COBRA BALL baseline configurations. Development and integration is managed by the Big Safari Systems Group. They employ evolutionary acquisition approaches to field incremental capability improvements.												
E. 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 0304260F: Airborne SIGINT Enterprise				PROJECT 675180: RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint)				

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
SIGINT Sensor Development and Integration	SS/ Various	L3COM:Greenville, TX	-	34.809	Jan 2012	40.160	Jan 2013	32.331	Jan 2014	-		32.331	Continuing	Continuing	TBD
Subtotal			0.000	34.809		40.160		32.331		0.000		32.331			

Remarks
Above contract method/type will be CPFF and FFP

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
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

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
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

			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	34.809		40.160		32.331		0.000		32.331			

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 0304260F: Airborne SIGINT Enterprise

PROJECT

675180: RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint)



U.S. AIR FORCE

ASE RC-135 Development Efforts

	FY12	FY13	FY14	FY15	FY16	FY17	FY18
RIVET JOINT							
COMBAT SENT							
COBRABALL							
Details are classified and are shown in the classified portion of 0305207F							

Concept activities
 Production / fielding

Design / development
 Pre-Production

Integration / test
 Key events

Integrity - Service - Excellence

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Exhibit R-4A, RDT&E Schedule Details: 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 0304260F: <i>Airborne SIGINT Enterprise</i>	PROJECT 675180: <i>RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Development of RIVET JOINT mission sensors	1	2012	4	2018
Development of COMBAT SENT mission sensors	1	2012	4	2018
Development of COBRA BALL mission sensors	1	2012	4	2018

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Exhibit R-2A, RDT&E Project Justification: 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 0304260F: Airborne SIGINT Enterprise				PROJECT 675181: High Altitude SIGINT Development - High Altitude			
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
675181: High Altitude SIGINT Development - High Altitude	-	0.000	0.000	4.066	-	4.066	6.004	7.177	7.271	7.402	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, 675181, High Altitude SIGINT, efforts were transferred from 675184, RQ-4, in order to provide visibility into all activities for both manned and unmanned high altitude platforms.												
A. Mission Description and Budget Item Justification												
(U) This project will cover the costs of SIGINT integration for high altitude ISR beginning in FY14.												
(U) This project supports sensor integration and test, flight test, design studies, engineering analysis, non-recurring engineering and other efforts associated with the insertion of new capabilities integrated into the ASIP or other SIGINT sensors and their associated air and ground components for the High Altitude SIGINT platforms. Also identifies suitable replacements for components affected by diminishing manufacturing sources. This project provides the warfighter with a near-term, increased combat capability. Enhancements are implemented as soon as technology and risk achieve satisfactory levels. Capability improvements will be inserted into the sensors through individual development efforts that exploit signals of interest identified as service priorities by the Air Force SIGINT Capabilities Working Group. Funding includes completion of developmental logistics tasks associated with the design, development, and integration of ASIP and the ASIP Depot standup; to include all 12 Product Support Elements. 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 High Altitude platforms.												
(U) 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.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: High Altitude SIGINT									0.000	0.000	3.666	
Description: Integration and test of SIGINT sensors into high altitude platforms.												
FY 2012 Accomplishments: FY 2012 efforts described in project 675184, RQ-4.												
FY 2013 Plans:												

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Exhibit R-2A, RDT&E Project 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 0304260F: <i>Airborne SIGINT Enterprise</i>			PROJECT 675181: <i>High Altitude SIGINT Development - High Altitude</i>				
B. Accomplishments/Planned Programs (\$ in Millions)							FY 2012	FY 2013	FY 2014		
FY 2013 efforts described in project 675184, RQ-4.											
FY 2014 Plans: Will continue logistics efforts and development of new signals capabilities and enhancements of SIGINT sensors as necessary.											
Title: Program Management Activity							0.000	0.000	0.400		
Description: Providing management services to support the development and fielding of high altitude SIGINT capabilities.											
FY 2012 Accomplishments: N/A											
FY 2013 Plans: N/A											
FY 2014 Plans: Will provide management services to support the development and fielding of high altitude SIGINT capabilities.											
Accomplishments/Planned Programs Subtotals							0.000	0.000	4.066		
C. 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
• APAF: BA05: Line Item # 11U200: <i>U-2 Mods</i>	0.000	0.000	45.591		45.591	61.120	20.233	43.900	52.835	Continuing	Continuing
Remarks Above APAF includes both production and mods. Not all funds are associated with SIGINT.											
D. Acquisition Strategy (U) SIGINT capabilities will be integrated into these platforms using an evolutionary approach.											
E. 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 0304260F: Airborne SIGINT Enterprise						PROJECT 675181: High Altitude SIGINT Development - High Altitude			
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
SIGINT Sensors Development	SS/ Various	Northrop Grumman:San Jose, CA	-	0.000		0.000		3.666	Jan 2014	-		3.666	Continuing	Continuing	
Subtotal			0.000	0.000		0.000		3.666		0.000		3.666			
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
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
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
PMA	Various	TBD:Dayton, OH	-	0.000		0.000		0.400	Jan 2014	-		0.400	Continuing	Continuing	
Subtotal			0.000	0.000		0.000		0.400		0.000		0.400			
Project Cost Totals			0.000	0.000		0.000		4.066		0.000		4.066			
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 0304260F: *Airborne SIGINT Enterprise*

PROJECT

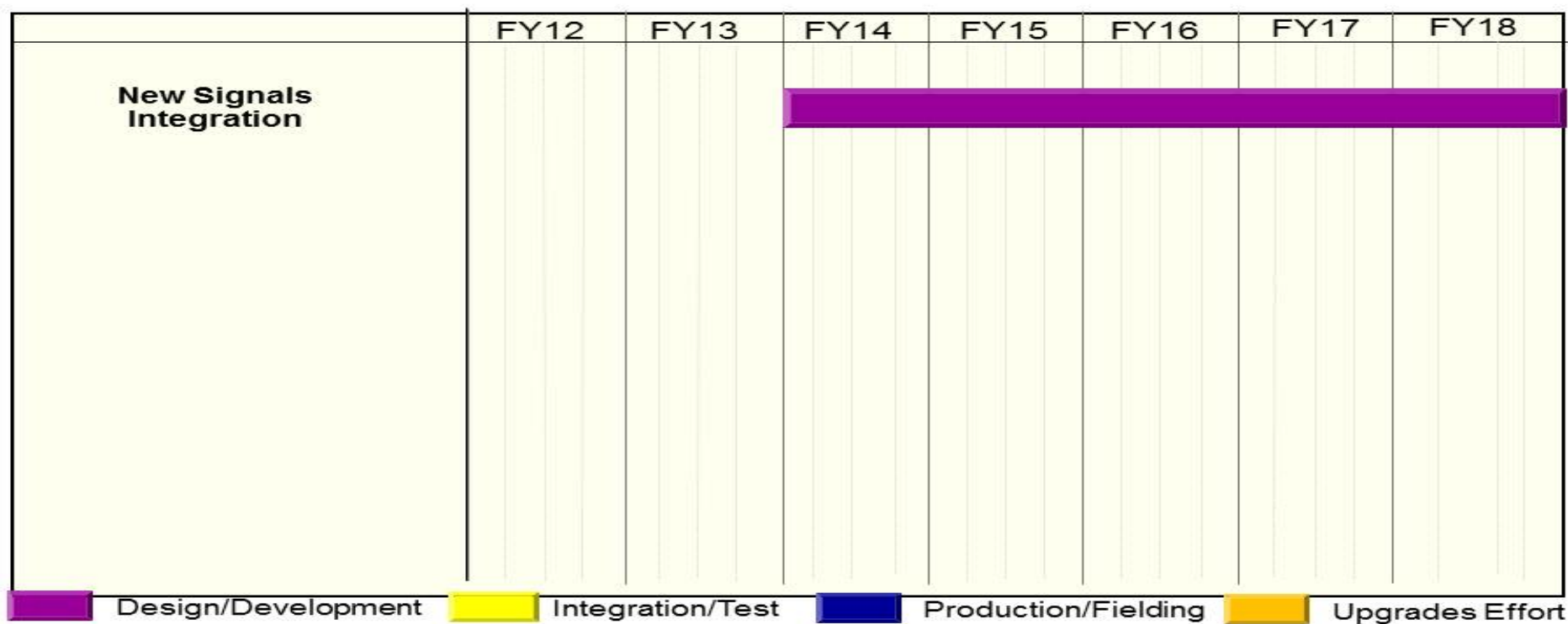
675181: *High Altitude SIGINT Development*
- *High Altitude*



High Altitude ASIP Schedule



Birthplace, Home & Future of Aerospace



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Exhibit R-4A, RDT&E Schedule Details: 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 0304260F: Airborne SIGINT Enterprise	PROJECT 675181: High Altitude SIGINT Development - High Altitude

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
New signals integration	1	2014	4	2018

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Exhibit R-2A, RDT&E Project Justification: 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 0304260F: Airborne SIGINT Enterprise				PROJECT 675182: Medium Altitude SIGINT Development - Medium Altitude			
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
675182: Medium Altitude SIGINT Development - Medium Altitude	-	25.874	35.340	19.818	-	19.818	28.354	27.561	33.198	33.795	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												
A. Mission Description and Budget Item Justification												
<p>(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 and other medium altitude platforms as required with SIGINT sensors and their associated air and ground components. This RDT&E effort integrates SIGINT capability on to the MQ-1/MQ-9 and other platforms as required. 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.</p> <p>(U) Design efforts specific to the Predator or Reaper and other medium altitude systems may include, but not be limited to, antennas, electromagnetic interference reduction, encryption techniques, and changes to the aircraft, ground station, data link, and simulator necessary to accommodate a SIGINT payload and its data throughput. 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. In accordance with an evolutionary acquisition strategy, a series of Airborne Signals Intelligence Payload (ASIP) 2C capability improvements are continuing development in FY13 and FY14. These upgrades are designed to exploit signals of interest identified as service priorities by the Air Force SIGINT Capabilities Working Group (SCWG). These development activities will continue through future years, to include but not be limited to, integrating capabilities developed under separate efforts.</p> <p>(U) This project provides the warfighter with near term increased combat capability. Enhancements are implemented as soon as technology and risk achieve satisfactory levels and exploit signals of interest identified as Service priorities by the AF SCWG. FY14 funds will continue to develop and integrate the ASIP 2C sensor on the MQ-9 containing an enhanced signal set. Blue Moon development efforts began in FY11.</p> <p>(U) 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.</p>												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: MQ-1/9 SIGINT Development									17.027	33.120	18.275	

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Exhibit R-2A, RDT&E Project Justification: 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 0304260F: Airborne SIGINT Enterprise	PROJECT 675182: Medium Altitude SIGINT Development - Medium Altitude		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
Description: Develop and test a common/scalable SIGINT system for multiple SIGINT platforms (MQ-1 and MQ-9) using an open system architecture. FY 2012 Accomplishments: Continued current ASIP 2C payload development and integration activities and incorporated upgrades as appropriate. FY 2013 Plans: Continue SIGINT payload development and integration activities and incorporate upgrades as appropriate. Continue Ground Station modification to align integration and flight test. FY 2014 Plans: Will continue payload development and integration activities and incorporate upgrades as appropriate. Continue Ground Station modification to align integration and flight test.				
Title: Blue Moon Description: Blue Moon QRC to deliver a new antenna capability to collect against signals of interest. FY 2012 Accomplishments: Continued development of Blue Moon capability upgrade for MQ-9. Integrated software packages on platforms. FY 2013 Plans: Finalize integration of Blue Moon capability improvements on MQ-9.		8.000	1.000	0.000
Title: Program Management Activity Description: Providing management services to support the development and fielding of medium altitude SIGINT capabilities. FY 2012 Accomplishments: Provided management services to support the development and fielding of medium altitude SIGINT capabilities. FY 2013 Plans: Provide management services to support the development and fielding of medium altitude SIGINT capabilities. FY 2014 Plans: Will provide management services to support the development and fielding of medium altitude SIGINT capabilities.		0.847	1.220	1.543
Accomplishments/Planned Programs Subtotals		25.874	35.340	19.818

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Exhibit R-2A, RDT&E Project Justification: 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 0304260F: Airborne SIGINT Enterprise				PROJECT 675182: Medium Altitude SIGINT Development - Medium Altitude			
C. 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
• APAF: BA04: Line Item # PRDTB1: MQ-9	659.592	553.530	272.217		272.217	433.705	494.319	541.534	559.942	Continuing	Continuing
• APAF: BA05: Line Item # PRDTB2: MQ-9	110.744	238.360	102.970		102.970	104.102	128.052	205.537	160.998	Continuing	Continuing
• APAF: BA06: Line Item # PRDTB1: MQ-9	188.815	124.060	37.070		37.070	126.657	128.408	125.169	131.616	Continuing	Continuing
Remarks											
Above APAF includes both production and mods. Not all funds are associated with SIGINT.											
D. Acquisition Strategy											
(U) SIGINT capabilities will be integrated onto MQ-1/9 platforms using an evolutionary acquisition approach.											
E. 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						R-1 ITEM NOMENCLATURE				PROJECT					
3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development						PE 0304260F: Airborne SIGINT Enterprise				675182: Medium Altitude SIGINT Development - Medium Altitude					
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
SIGINT Sensor Integration and Test	Various	General Atomics:San Diego, CA	-	0.000		0.500	Feb 2013	1.280	Jan 2014	-		1.280	0.000	1.780	17.671
SIGINT Sensors Development	SS/CPIF	Northrop Grumman ESL:San Jose, CA	-	15.607	Aug 2012	29.670	Jan 2013	9.845	Jan 2014	-		9.845	Continuing	Continuing	TBD
Blue Moon	SS/CPFF	MIT LL:Lexington, MA	-	8.000	Feb 2012	1.000	Aug 2013	0.000		-		0.000	0.000	9.000	25.000
Subtotal			0.000	23.607		31.170		11.125		0.000		11.125			
Remarks															
Cost to complete is for the intial ASIP 2C variant. Upgrades will continue for this program throughout the FYDP															
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
Various Integration Efforts, & Flight Test	Various	Various:,	-	1.248	Jan 2012	2.950	Jan 2013	7.150	Jan 2014	-		7.150	Continuing	Continuing	TBD
Subtotal			0.000	1.248		2.950		7.150		0.000		7.150			
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
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
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
PMA	Various	Various:Dayton, OH	-	1.019	Jan 2012	1.220	Jan 2013	1.543	Jan 2014	-		1.543	Continuing	Continuing	
Subtotal			0.000	1.019		1.220		1.543		0.000		1.543			

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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 0304260F: Airborne SIGINT Enterprise					PROJECT 675182: Medium Altitude SIGINT Development - Medium Altitude							
					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	25.874		35.340		19.818		0.000		19.818			

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 0304260F: Airborne SIGINT Enterprise

PROJECT

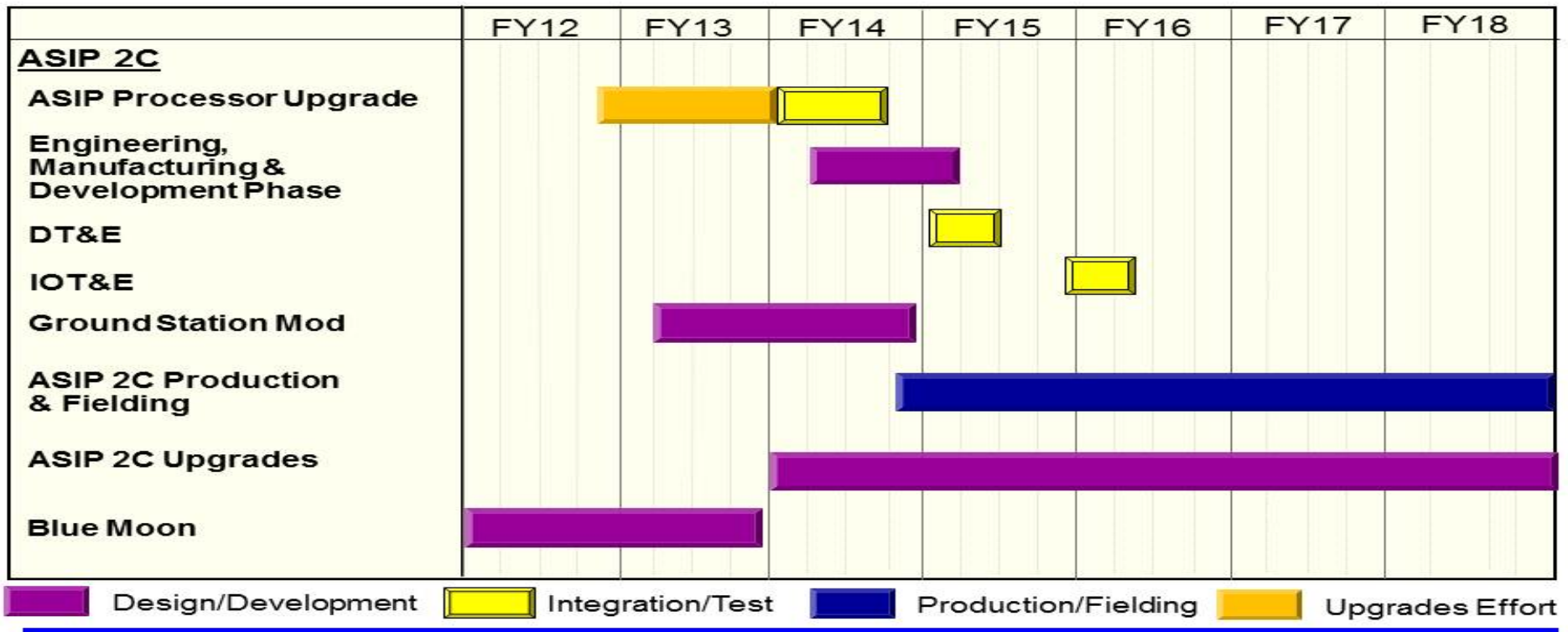
675182: Medium Altitude SIGINT
Development - Medium Altitude



ASIP Medium Altitude Schedule



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Exhibit R-4A, RDT&E Schedule Details: 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 0304260F: <i>Airborne SIGINT Enterprise</i>	PROJECT 675182: <i>Medium Altitude SIGINT Development - Medium Altitude</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
ASIP Processor Upgrade	4	2012	3	2014
Engineering, Manufacturing & Development Phase	2	2014	1	2015
DT&E	1	2015	2	2015
IOT&E	4	2015	2	2016
Ground Station Mod	2	2013	4	2014
ASIP 2C Production & Fielding	4	2014	4	2018
ASIP 2C Upgrades	1	2014	4	2018
Blue Moon	1	2012	4	2013

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Exhibit R-2A, RDT&E Project Justification: 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 0304260F: Airborne SIGINT Enterprise				PROJECT 675183: Common Development (Airborne SIGINT Development - Common Development)			
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
675183: Common Development (Airborne SIGINT Development - Common Development)	-	38.855	45.403	53.544	-	53.544	80.739	46.722	36.218	36.870	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												
(U) This project supports the development of SIGINT payloads, including the Airborne Signals Intelligence Payload (ASIP) 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 SIGINT efforts.												
A. Mission Description and Budget Item Justification												
(U) This project supports design studies, engineering analysis, non-recurring engineering, and other efforts associated with the insertion of new capabilities integrated into the ASIP and other sensors and their associated air and ground components that will be used on/by more than one platform. The common development SIGINT project also supports development of new sensors capabilities, normalization of quick reaction capabilities, and identifies suitable replacements for components affected by diminishing manufacturing sources. New capabilities are developed by separate projects.												
(U) The current sensors being developed are the ASIP (which is operational on the U-2 and Global Hawk (RQ-4)), and the scalable ASIP payloads for 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. The ASIP Family of Sensors (FoS) 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 2C will develop a SIGINT sensor for the MQ-9.												
(U) Capability improvements will be inserted into the ASIP family of sensors through individual development efforts that exploit signals of interest identified as service priorities by the Air Force SIGINT Capabilities Working Group (SCWG). This project provides the warfighter with near term increased combat capability. Enhancements are implemented as soon as technology and risk achieve satisfactory levels. Compatability improvements will be inserted into the ASIP FoS through individual development efforts that exploit signals of interest identified as Service priorities by the AF SCWG. Sensors will be integrated and tested on the various platforms as funding permits. 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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Exhibit R-2A, RDT&E Project Justification: 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 0304260F: Airborne SIGINT Enterprise	PROJECT 675183: Common Development (Airborne SIGINT Development - Common Development)		
(U) Some parts of ASIP Upgrades are funded within the Common Development project of this PE and some parts are funded within the High Altitude SIGINT project (675181). Parts that have applicability to other platforms such as the MQ-9 are funded in Common Development project.				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
Title: SIGINT Development Description: Develop and test a common/scalable SIGINT system for multiple SIGINT platforms (U-2, Global Hawk, MQ-9, etc) using an open system architecture. FY 2012 Accomplishments: Began ASIP Upgrade Increment 1 and Increment 2 to bring new capabilities into the existing sensor. Began effort for integration on the high altitude platforms. Began ASIP Processor Upgrade chassis effort to improve the ASIP Capabilities to capture new/complex signals. FY 2013 Plans: Continue new signals capabilities and enhancements for the ASIP sensor. Continue ASIP Processor Upgrade development, integration activities, and incorporate upgrades as appropriate. Details are classified. FY 2014 Plans: Will continue new signals capabilities and enhancements for the ASIP sensor. Will complete ASIP Upgrade Increments 1 and Increment 2, and ASIP Processor Upgrade chassis. Will continue integration activities, and incorporate upgrades as appropriate. Details are classified.		37.755	44.329	51.944
Title: Program Management Activity Description: Providing management services to support the development and fielding of SIGINT capabilities. FY 2012 Accomplishments: Provided management services to support the development and fielding of SIGINT capabilities. FY 2013 Plans: Provide management services to support the development and fielding of SIGINT capabilities. FY 2014 Plans: Will provide management services to support the development and fielding of SIGINT capabilities.		1.100	1.074	1.600
Accomplishments/Planned Programs Subtotals		38.855	45.403	53.544

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Exhibit R-2A, RDT&E Project Justification: 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 0304260F: Airborne SIGINT Enterprise				PROJECT 675183: Common Development (Airborne SIGINT Development - Common Development)			
C. Other Program Funding Summary (\$ in Millions)											
			FY 2014	FY 2014	FY 2014					Cost To	
Line Item	FY 2012	FY 2013	Base	OCO	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total Cost
• APAF: BA04: Line Item #	687.771	0.000	0.000		0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
HAEUAV: RQ-4											
• APAF: BA05: Line Item #	62.275	53.664	67.404		67.404	66.158	25.000	51.900	52.835	Continuing	Continuing
11U200: U-2 Mods											
Remarks Not all funds are associated with SIGINT.											
D. Acquisition Strategy Signals Intelligence capabilities will be developed and integrated onto various platforms using an evolutionary acquisition approach.											
E. 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						R-1 ITEM NOMENCLATURE				PROJECT					
3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development						PE 0304260F: Airborne SIGINT Enterprise				675183: Common Development (Airborne SIGINT Development - Common Development)					
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
ASIP Upgrades Development	SS/CPIF	Northrop Grumman:San Jose, CA	-	32.940	Feb 2012	27.149	Jan 2013	33.024	Jan 2014	-		33.024	Continuing	Continuing	TBD
ASIP Processor Upgrade Chassis	SS/CPIF	Northrop Grumman:San Jose, CA	-	0.000		13.172	Oct 2012	14.653	Jan 2014	-		14.653	Continuing	Continuing	
Various SIGINT Efforts	Various	Northrop Grumman:San Jose, CA	-	2.820	Feb 2012	3.008	Jan 2013	3.200	Jan 2014	-		3.200	Continuing	Continuing	TBD
Subtotal			0.000	35.760		43.329		50.877		0.000		50.877			
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
(U) Various Integration Efforts, & Flight Test	Various	Various:San Jose, CA	-	1.995	Feb 2012	1.000	Aug 2013	1.167	Jan 2014	-		1.167	Continuing	Continuing	TBD
Subtotal			0.000	1.995		1.000		1.167		0.000		1.167			
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
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
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
PMA	Various	Various:Dayton, OH	-	1.100	Jan 2012	1.074	Jan 2013	1.500	Jan 2014	-		1.500	Continuing	Continuing	TBD

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Exhibit R-3, RDT&E Project Cost Analysis: 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 0304260F: <i>Airborne SIGINT Enterprise</i>				PROJECT 675183: <i>Common Development (Airborne SIGINT Development - Common Development)</i>				

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	Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	1.100		1.074		1.500		0.000		1.500				

	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	38.855	45.403	53.544	0.000	53.544			

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 0304260F: Airborne SIGINT Enterprise

PROJECT

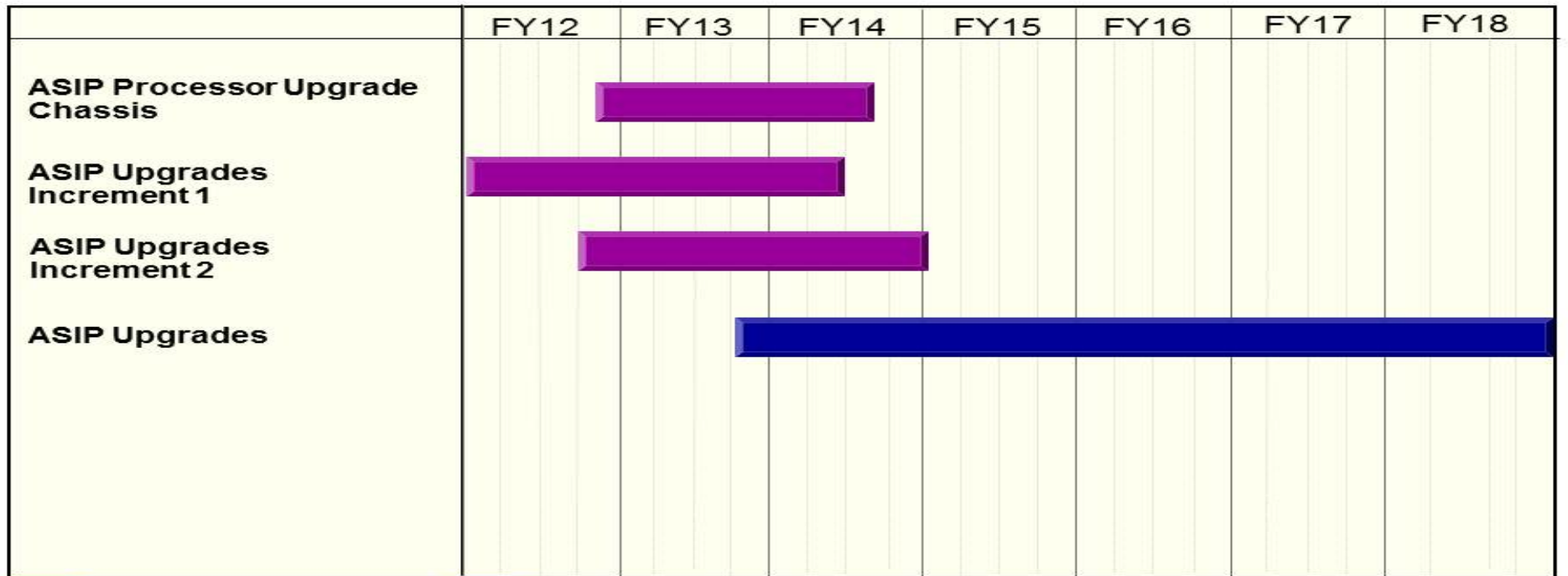
675183: Common Development (Airborne SIGINT Development - Common Development)



Common Development SIGINT



Birthplace, Home & Future of Aerospace



Design/Development
 Integration/Test
 Production/Fielding
 Upgrades Effort

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Exhibit R-4A, RDT&E Schedule Details: 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 0304260F: <i>Airborne SIGINT Enterprise</i>	PROJECT 675183: <i>Common Development (Airborne SIGINT Development - Common Development)</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
ASIP Processor Upgrade Chassis	4	2012	3	2014
ASIP Upgrades Increment 1	1	2012	2	2014
ASIP Upgrades Increment 2	4	2012	1	2015
ASIP Upgrades	4	2013	4	2018

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Exhibit R-2A, RDT&E Project Justification: 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 0304260F: Airborne SIGINT Enterprise				PROJECT 675184: RQ-4 (Airborne SIGINT Development - Global Hawk)			
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
675184: RQ-4 (Airborne SIGINT Development - Global Hawk	-	2.108	0.998	0.000	-	0.000	0.000	0.000	0.000	0.000	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, 675184, RQ-4, efforts were transferred to 675181, High Altitude SIGINT, to provide visibility into all activities for both manned and unmanned high altitude platforms. PMA costs for this project will be covered under Common Development, 675183.												
A. Mission Description and Budget Item Justification												
(U) This project will cover the costs of integration for high altitude ISR for both manned and unmanned platforms.												
(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 High Altitude SIGINT sensors. Also identifies suitable replacements for components affected by diminishing manufacturing sources. This project provides the warfighter with a near-term, increased combat capability. Enhancements are implemented as soon as technology and risk achieve satisfactory levels. Capability improvements will be inserted into the sensor through individual development efforts that exploit signals of interest identified as service priorities by the Air Force SIGINT Capabilities Working Group Funding includes completion of developmental logistics tasks associated with the design, development, and integration of ASIP and the ASIP Depot standup; to include all 12 Product Support Elements. 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 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.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: RQ-4 SIGINT									2.092	0.998	0.000	
Description: Design, develop, and test SIGINT capabilities for ASIP sensors, support equipment, technical orders, training, shipping containers, and support the ASIP depot stand-up.												
FY 2012 Accomplishments:												

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Exhibit R-2A, RDT&E Project Justification: 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 0304260F: Airborne SIGINT Enterprise				PROJECT 675184: RQ-4 (Airborne SIGINT Development - Global Hawk)				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
Continued logistics efforts, including updating technical data and support equipment. Supported baseline ASIP depot stand-up and system integration. FY 2013 Plans: Continue logistics efforts, including updating technical data, test and support equipment, and related activities in support of High Altitude programs. Continue system integration.												
Title: Program Management Activity Description: Providing management services to support the development and fielding of high altitude SIGINT capabilities.										0.016	0.000	0.000
FY 2012 Accomplishments: Provided management services to support the development and fielding of high altitude SIGINT capabilities.												
Accomplishments/Planned Programs Subtotals										2.108	0.998	0.000
C. 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	
• APAF: BA04: Line Item # HAEUAV: RQ-4	395.464	75.000	27.000		27.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
• APAF: BA05: Line Item # 11U200: U-2 Mods	0.000	44.477	0.000		0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
Remarks Note: Not all of the above funding is for ASIP. Procurement funding shown represents all PE 0305220F Procurement funding and includes production and mods.												
D. Acquisition Strategy (U) SIGINT capabilities will be integrated on to this platform using an Evolutionary Acquisition approach utilizing various contracting methods.												
E. 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						R-1 ITEM NOMENCLATURE				PROJECT					
3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development						PE 0304260F: Airborne SIGINT Enterprise				675184: RQ-4 (Airborne SIGINT Development - Global Hawk)					
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
ASIP Baseline Development	SS/ Various	Northrop Grumman Mission Sys:San Jose, CA	-	0.000		0.000		0.000		-		0.000	Continuing	Continuing	108.245
ASIP Upgrades Development	Various	Northrop Grumman Mission Sys:San Jose, CA	-	1.467	Feb 2012	0.998	Jan 2013	0.000		-		0.000	Continuing	Continuing	TBD
ASIP LSA Taskings	Various	Northrop Grumman Mission Sys:San Jose, CA	-	0.625	Feb 2012	0.000		0.000		-		0.000	Continuing	Continuing	TBD
Subtotal			0.000	2.092		0.998		0.000		0.000		0.000			
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
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
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
PMA	Various	Various:Dayton, OH	-	0.016	Jan 2012	0.000		0.000		-		0.000	Continuing	Continuing	0.489
Subtotal			0.000	0.016		0.000		0.000		0.000		0.000			0.489

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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 0304260F: Airborne SIGINT Enterprise				PROJECT 675184: RQ-4 (Airborne SIGINT Development - Global Hawk				
	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	2.108		0.998		0.000		0.000		0.000			

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 0304260F: *Airborne SIGINT Enterprise*

PROJECT

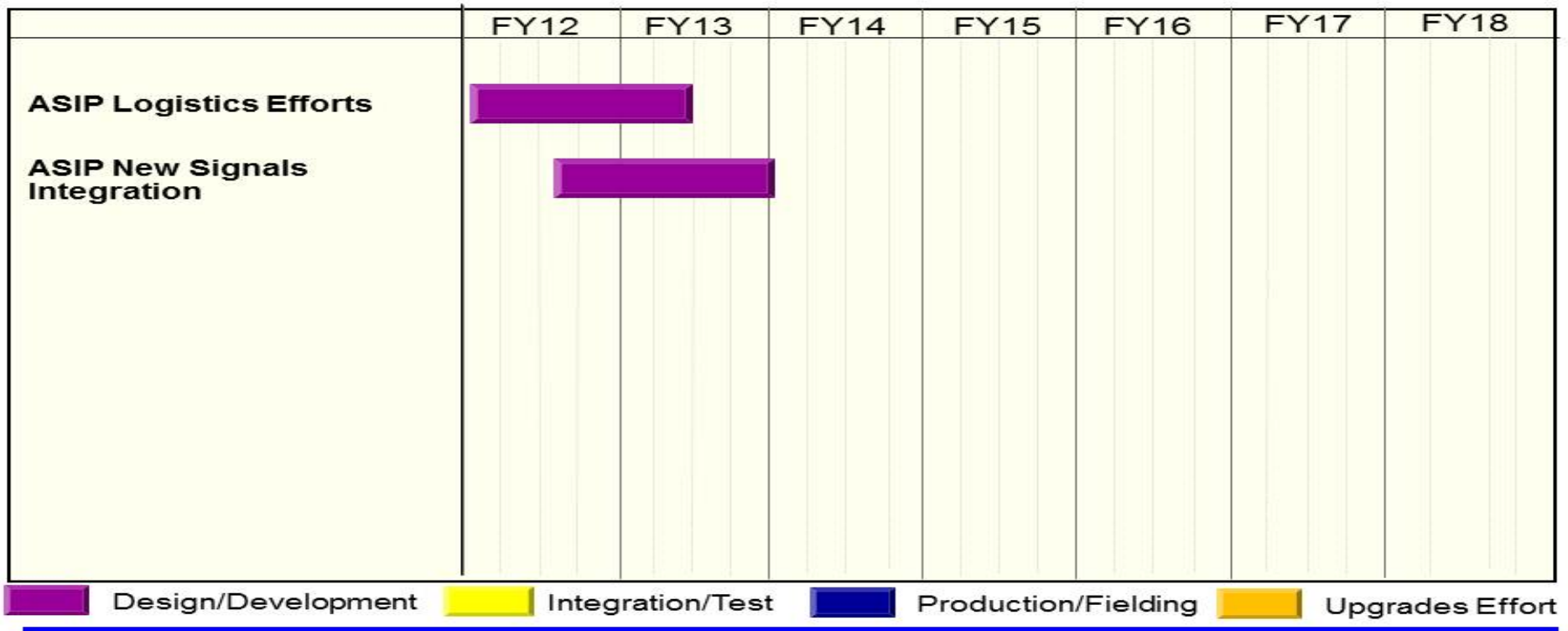
675184: *RQ-4 (Airborne SIGINT Development - Global Hawk)*



RQ-4 SIGINT Schedule



Birthplace, Home & Future of Aerospace



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Exhibit R-4A, RDT&E Schedule Details: 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 0304260F: <i>Airborne SIGINT Enterprise</i>	PROJECT 675184: <i>RQ-4 (Airborne SIGINT Development - Global Hawk)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
ASIP Logistics Efforts	1	2012	2	2013
ASIP New Signals Integration	3	2012	4	2013

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Exhibit R-2A, RDT&E Project Justification: 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 0304260F: Airborne SIGINT Enterprise				PROJECT 675185: Compass Bright (Airborne SIGINT Development - Compass Bright)			
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
675185: Compass Bright (Airborne SIGINT Development - Compass Bright)	-	6.169	6.324	7.351	-	7.351	7.837	7.865	8.115	8.261	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												
A. Mission Description and Budget Item Justification												
<p>(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. 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. 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. This process is completed the year prior to award.</p> <p>(U) FY12 activities included (but were not limited to) improving capabilities in the areas of digital SIGINT, cross cueing, audio/speech extraction, and confidence measure improvements.</p> <p>(U) FY13 continues to enhance the ability to geo-locate signals of interest, improve the audio quality of signals and improve the collection capabilities of our receivers. We will continue to improve our collection against low probability of detection signals.</p> <p>(U) FY14 will continue to enhance search and intercept capabilities, improve single aircraft geolocation, and improve real time communications systems.</p> <p>(U) 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.</p>												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: SIGINT Tech Development									5.397	5.529	6.532	
Description: Develops projects in the Signals Intelligence and Radio Frequency Measurement & Signature Intelligence areas for transition to platforms.												
FY 2012 Accomplishments:												

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Exhibit R-2A, RDT&E Project 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 0304260F: <i>Airborne SIGINT Enterprise</i>	PROJECT 675185: <i>Compass Bright (Airborne SIGINT Development - Compass Bright)</i>
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013
Initiated, continued or completed various SIGINT projects including search and intercept improvements, digital SIGINT.			
FY 2013 Plans: Initiate, continue or complete various SIGINT projects to include search and intercept improvements, enhanced ELINT exploitation, Open Set ID, and real time communications systems.			
FY 2014 Plans: Will initiate, continue or complete various SIGINT projects to include search and intercept improvements, enhanced ELINT exploitation, and real time communications systems.			
Title: Program Management Activity		0.772	0.795
Description: Providing management services to support the development and fielding of SIGINT capabilities.			
FY 2012 Accomplishments: Provided management services to support the development and fielding of SIGINT capabilities.			
FY 2013 Plans: Provide management services to support the development and fielding of SIGINT capabilities.			
FY 2014 Plans: Will provide management services to support the development and fielding of SIGINT capabilities.			
Accomplishments/Planned Programs Subtotals		6.169	6.324
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy (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.			
E. 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 0304260F: Airborne SIGINT Enterprise						PROJECT 675185: Compass Bright (Airborne SIGINT Development - Compass Bright)			
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
Various	Various	Multiple:Various, V	-	5.397	Jan 2012	5.529	Jan 2013	6.532	Jan 2014	-		6.532	Continuing	Continuing	TBD
Subtotal			0.000	5.397		5.529		6.532		0.000		6.532			
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
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
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
PMA	Various	Various:Dayton, OH	-	0.772	Oct 2011	0.795	Oct 2012	0.819	Oct 2013	-		0.819	Continuing	Continuing	TBD
Subtotal			0.000	0.772		0.795		0.819		0.000		0.819			
Project Cost Totals			0.000	6.169		6.324		7.351		0.000		7.351			
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 0304260F: Airborne SIGINT Enterprise

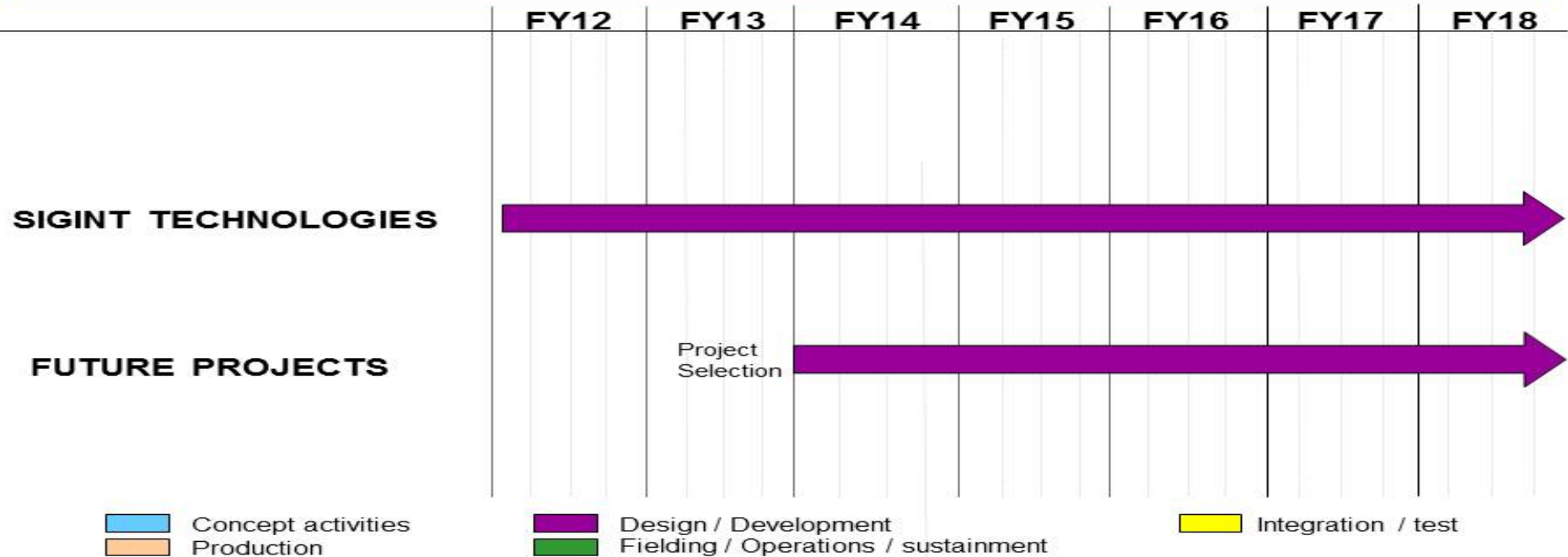
PROJECT

675185: Compass Bright (Airborne SIGINT
Development - Compass Bright)



U.S. AIR FORCE

Compass Bright Schedule



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Exhibit R-4A, RDT&E Schedule Details: 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 0304260F: <i>Airborne SIGINT Enterprise</i>	PROJECT 675185: <i>Compass Bright (Airborne SIGINT Development - Compass Bright)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
SIGINT Technologies	1	2012	4	2018
Future Projects	1	2014	4	2018

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Exhibit R-2A, RDT&E Project Justification: 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 0304260F: Airborne SIGINT Enterprise				PROJECT 675186: Special Programs (Airborne SIGINT Development - Special Platforms)			
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
675186: Special Programs (Airborne SIGINT Development - Special Platforms)	-	0.498	0.881	0.000	-	0.000	0.000	11.771	12.091	12.309	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												
A. Mission Description and Budget Item Justification												
(U) This project supports special Signals Intelligence (SIGINT) studies as well as the development and integration of advanced SIGINT capabilities for special programs such as Liberty Project Aircraft (MC-12W), Network Centric Collaborative Targeting (NCCT) SIGINT, and other projects approved by the SIGINT Capabilities Working Group (SCWG). Development efforts will include, but are not limited to such things as antenna improvements, sensitivity upgrades, and radio frequency distribution upgrades. Additionally, these funds will develop the capability to allow networking with other SIGINT assets to increase collection accuracy. 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) FY 2013 continues to focus development capabilities to collect against signals that are difficult to intercept due to power levels and other characteristics.												
(U) 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.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: SIGINT Development									0.498	0.881	0.000	
Description: Develops SIGINT capabilities for special programs such as Liberty Project Aircraft, NCCT projects and others.												
FY 2012 Accomplishments: Continued to develop low level signal detection capabilities.												
FY 2013 Plans: Continue to develop low level signal detection capabilities.												
Accomplishments/Planned Programs Subtotals									0.498	0.881	0.000	

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Exhibit R-2A, RDT&E Project 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 0304260F: <i>Airborne SIGINT Enterprise</i>			PROJECT 675186: <i>Special Programs (Airborne SIGINT Development - Special Platforms)</i>			
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• APAF: BA05: Line Item # C012WM: <i>MC-12W</i>	0.000	0.000	0.000		0.000	0.000	0.000	12.689	12.917	Continuing	Continuing
Remarks Note: Not all of the above funding applies to SIGINT systems.											
D. Acquisition Strategy (U) SIGINT capabilities will be integrated on to various classified platforms using an evolutionary acquisition approach.											
E. 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: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>							R-1 ITEM NOMENCLATURE PE 0304260F: <i>Airborne SIGINT Enterprise</i>				PROJECT 675186: <i>Special Programs (Airborne SIGINT Development - Special Platforms)</i>				
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
Low Level Signal Detection	SS/ Various	Lockheed Martin IS&GS:Denver, CO	-	0.385	Nov 2011	0.719	Nov 2012	0.000		-		0.000	Continuing	Continuing	TBD
Subtotal			0.000	0.385		0.719		0.000		0.000		0.000			
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
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
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
PMA	Various	Various:Dayton, OH	-	0.113	Mar 2012	0.162	Nov 2012	0.000		-		0.000	Continuing	Continuing	TBD
Subtotal			0.000	0.113		0.162		0.000		0.000		0.000			
			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	0.498	0.881	0.000	0.000	0.000	0.000	0.000					
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

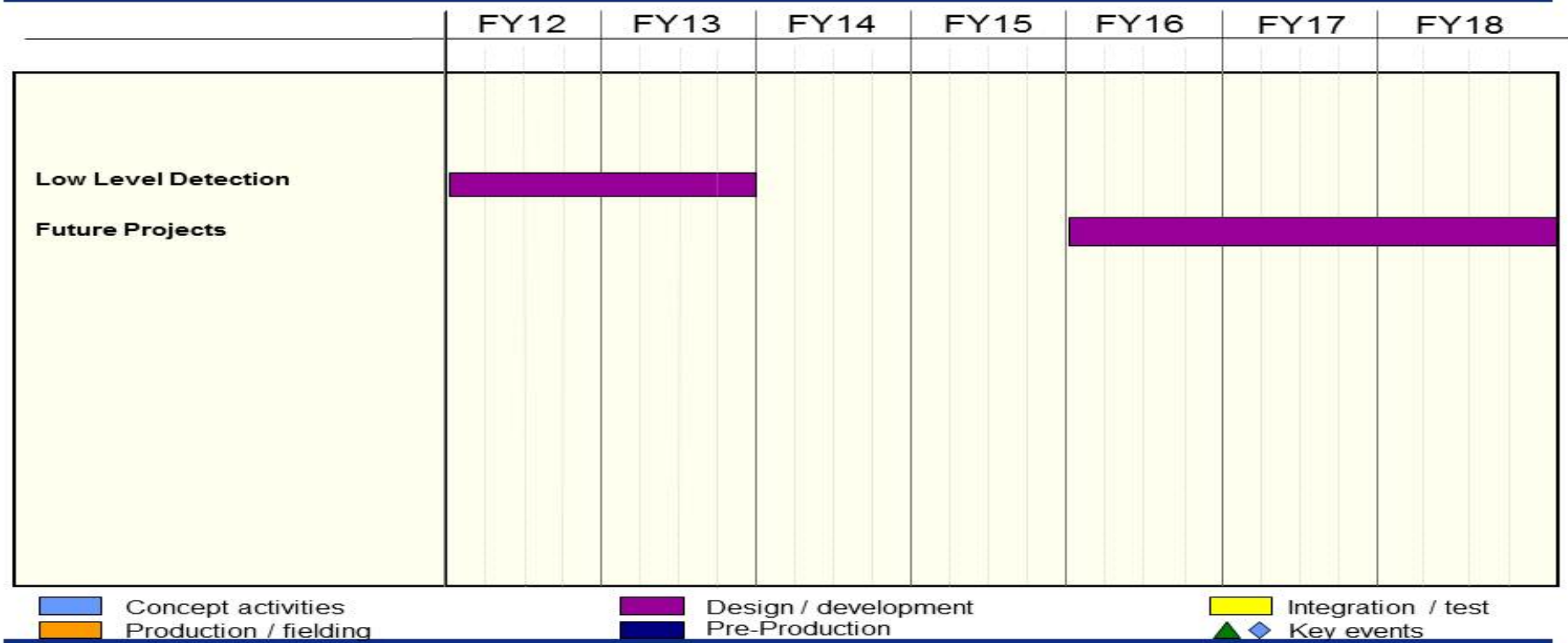
PE 0304260F: Airborne SIGINT Enterprise

PROJECT

675186: Special Programs (Airborne SIGINT Development - Special Platforms)



ASE Special Projects Schedule



Integrity - Service - Excellence

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Exhibit R-4A, RDT&E Schedule Details: 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 0304260F: <i>Airborne SIGINT Enterprise</i>	PROJECT 675186: <i>Special Programs (Airborne SIGINT Development - Special Platforms)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Low Level Signal Detection	1	2012	4	2013
Future Projects	1	2016	4	2018