

**UNCLASSIFIED**

**Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0304260F / <i>Airborne SIGINT Enterprise</i>
--	---

COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	98.297	108.947	85.284	0.000	85.284	94.684	96.734	100.236	102.214	Continuing	Continuing
675180: <i>RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint)</i>	-	39.412	43.443	41.917	0.000	41.917	45.753	46.798	48.492	49.449	Continuing	Continuing
675183: <i>Common Development (Airborne SIGINT Development - Common Development)</i>	-	39.849	47.902	25.335	0.000	25.335	30.449	31.075	32.199	32.835	Continuing	Continuing
675185: <i>COMPASS BRIGHT</i>	-	4.109	9.495	9.727	0.000	9.727	9.971	10.175	10.544	10.752	Continuing	Continuing
675186: <i>Special Programs (Airborne SIGINT Development - Special Platforms)</i>	-	14.927	8.107	8.305	0.000	8.305	8.511	8.686	9.001	9.178	Continuing	Continuing

**Note**  
 Project 675185, (COMPASS BRIGHT), changed from (Non-Traditional SIGINT (NTS))

**A. Mission Description and Budget Item Justification**

This program funds multi-domain, multi-Intelligence, Surveillance and Reconnaissance (ISR) research, development, test and evaluation (RDT&E) efforts in support of the National Defense Strategy (NDS), as applied by the Air Force in the Next Generation ISR Dominance Flight Plan. Specifically, Program Element (PE) 0304260F provides authorized and appropriated funding to Signals Intelligence (SIGINT) RDT&E efforts for utilization on airborne platforms.

The future ISR portfolio will consist of multi-domain, multi-intelligence systems to meet emerging ISR threats across the entire conflict spectrum. The Airborne SIGINT Enterprise (ASE) PE is integral to developing the SIGINT component of the multi-domain, multi-ISR system capable of maintaining the warfighter's decision advantage through all ranges of military operations, to include highly contested environments (HCEs).

ASE program funds are distributed to projects based on the development priorities established by the USAF SIGINT Capabilities Working Group (SCWG), which is chartered to guide the ASE capability investment. When required, the USAF may move funds between ASE projects, developing the highest priority projects in response to urgent (e.g., JUON) and emerging (e.g., JEON) warfighter needs.

The ASE program participates in the development, integration, testing, and implementation of international and Air Force standards (e.g., North Atlantic Treaty Organization (NATO) standardization) to ensure joint, allied, and coalition interoperability with ASE fielded systems. ASE funds lead the modernization efforts including existing airborne platform sensors, and where appropriate, their interfaces with the Air Force Distributed Common Ground System (AF DCGS). The ASE program approach is a synergistic development effort providing Air Force-wide ISR capabilities consistent with the NDS.

**UNCLASSIFIED**

<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2025 Air Force	<b>Date:</b> March 2024
--	-------------------------

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0304260F / <i>Airborne SIGINT Enterprise</i>
--	---

ASE will use the continuously evolving Air Force SIGINT Architecture (AFSA), managed by the AFSA team, for planning and decision-making. The AFSA team is focused on employing open architecture standards whenever possible, to allow maximum effectiveness, efficiency and flexibility of development upgrades with multi-domain interoperability. The primary goal is to produce an open system architecture-based, capability-focused SIGINT investment strategy for the USAF.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver emergent or unanticipated weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY23, \$0.514M was expended for civilian pay expenses in this program element, and in FY24, \$1.244M is forecasted for civilian pay expenses in this program element.

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>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Previous President's Budget	109.528	108.947	89.499	0.000	89.499
Current President's Budget	98.297	108.947	85.284	0.000	85.284
Total Adjustments	-11.231	0.000	-4.215	0.000	-4.215
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	-11.231	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	-4.215	0.000	-4.215

**Change Summary Explanation**

FY23 \$11.231M was realigned to other AF priorities.

The FY 2025 funding request was reduced by \$4.366 million to account for the availability of prior year execution balances.

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Air Force										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 3600 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise				<b>Project (Number/Name)</b> 675180 / RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint)			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
675180: RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint)	-	39.412	43.443	41.917	0.000	41.917	45.753	46.798	48.492	49.449	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

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 field needed capabilities, it also incurs a need for continuous identification of suitable replacements for components affected by Diminishing Manufacturing Sources and integration efforts consistent with the COTS technology cycle. These efforts provide required engineering for preliminary assessments of technical feasibility, operability, or military utility as well as specific engineering implementations integrated into the various baseline modifications. Funding also supports innovation activities to include studies, analyses, requirements definition, and quick-reaction capability prototypes/demonstrations to accelerate planning for technology transition, technology insertion and future acquisition programs. These funds will be disbursed among the RC-135V/W RIVET JOINT, the RC-135U COMBAT SENT, and the RC-135S COBRA BALL programs. Funding reflects the SCWG priorities and the accomplishment of other Airborne SIGINT Enterprise initiatives.

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<b>Title:</b> RC-135 SIGINT Development	39.412	43.443	41.917
<b>Description:</b> Non-Recurring Engineering for the RC-135 signals intelligence systems. See Classified Budget Exhibits (PE 0305207F)			
<b>FY 2024 Plans:</b> - Developing SIGINT development efforts for the RC-135 fleet to include new signal sets and upgrades to current capabilities. See PE 0305207F for classified details. Classified requirements POC is HAF AF/A2OO (704) 614-7317.			
<b>FY 2025 Plans:</b> - Will continue SIGINT development efforts for the RC-135 fleet to include new signal sets and upgrades to current capabilities. See PE 0305207F for classified details. Classified requirements POC is HAF AF/A2OO (704) 614-7317.			
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Funding decrease is due to higher Air Force priorities.			
<b>Accomplishments/Planned Programs Subtotals</b>	39.412	43.443	41.917

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise	<b>Project (Number/Name)</b> 675180 / RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint)

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

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• APAF 05 Line Item DARPO1: RC-135	213.428	220.138	222.554	-	222.554	225.856	230.948	235.755	240.428	Continuing	Continuing

**Remarks**

The funds within Program 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 the ASE. Not all procurement funds in #DARPO1: RC-135 are for ASE SIGINT projects.

**D. Acquisition Strategy**

Aircraft, aircraft sensor systems, and associated ground support system modifications planned include the procurement, fielding and logistical support for future RC-135V/W RIVET JOINT, RC-135U COMBAT SENT and RC-135S 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.

**UNCLASSIFIED**

**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise	<b>Project (Number/Name)</b> 675180 / RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint)
--	--	--

<b>Product Development (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
RC-135 SIGINT Development	SS/ Various	L3 Harris : Greenville, TX	-	39.412	Jan 2023	43.443	Jan 2024	41.917	Jan 2025	-		41.917	Continuing	Continuing	-
<b>Subtotal</b>			-	39.412		43.443		41.917		-		41.917	Continuing	Continuing	N/A

**Remarks**  
Above contract method/type will be CPFF and FFP

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	-	39.412	43.443	41.917	-	41.917	Continuing	Continuing	N/A

**Remarks**

**UNCLASSIFIED**

<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise	<b>Project (Number/Name)</b> 675180 / RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint)

FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

<b>Development of RC-135 mission sensors</b>	
Development of RIVET JOINT mission sensors (see 0305207F for classified details)	
Development of COMBAT SENT mission sensors (see 0305207F for classified details)	
Development of COBRA BALL mission sensors (see 0305207F for classified details)	

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise	<b>Project (Number/Name)</b> 675180 / RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint)

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Development of RC-135 mission sensors</b>				
Development of RIVET JOINT mission sensors (see 0305207F for classified details)	1	2023	4	2029
Development of COMBAT SENT mission sensors (see 0305207F for classified details)	1	2023	4	2029
Development of COBRA BALL mission sensors (see 0305207F for classified details)	1	2023	4	2029

**Note**

Requirements documentation is classified. Classified requirements POC is HAF AF/A2/6UO (703) 614-7317

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Air Force										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 3600 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise				<b>Project (Number/Name)</b> 675183 / Common Development (Airborne SIGINT Development - Common Development)			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
675183: Common Development (Airborne SIGINT Development - Common Development)	-	39.849	47.902	25.335	0.000	25.335	30.449	31.075	32.199	32.835	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

The Common Development project supports airborne SIGINT design studies, engineering analysis, non-recurring engineering (NRE), program management, risk reduction, and other efforts associated with support to fielded SIGINT sensors and their associated air and ground components. The Common Development project also supports the development and integration of new sensor capabilities, quick reaction capabilities, and capabilities to address emerging needs as identified by the SIGINT Capabilities Working Group (SCWG). Finally, the Common Development project supports replacement components affected by Diminishing Manufacturing Sources and Material Shortages (DMSMS).

Future SIGINT sensors are being developed through the implementation of open architecture concepts that enable the rapid integration of new signals of interests. Future SIGINT sensor efforts will address needs identified in the National Defense Strategy and Next Generation ISR Dominance Flight Plan in order to sustain SIGINT operations in a highly contested environment. The efforts include, but are not limited to, demonstrating SIGINT capabilities using a CI-6 family of systems sensor on a current USAF platform, demonstrating integration of a CI-6 family of systems sensor with the Distributed Common Ground System (DCGS), conducting CI-6 family of systems sensor improvements, developing Low-Cost UAS Sensor Technology (LOCUST), and furthering the development of CRESTONE to counter emerging threats.

This project also supports overarching Airborne SIGINT Enterprise (ASE) common development to include, but not limited to, the Air Force SIGINT Architecture maintenance, SIGINT modeling and simulation efforts, and technology development and risk reduction through the Air Force Research Lab managed Open Architecture Technology Lab (OATL). Capability improvements needed to exploit service identified signals of interest will be identified as priorities by the Air Force SCWG. This project provides the warfighter increased SIGINT combat capability via rapid acquisition. Capability enhancements are implemented as soon as the ASE technology achieves satisfactory risk levels. ASE developed Sensors will be integrated and tested on available platforms, funding permitting.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver emergent or unanticipated weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY23, \$0.514M was expended for civilian pay expenses in this program element, and in FY24, \$1.244M is forecasted for civilian pay expenses in this program element.

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<b>Title:</b> Common SIGINT Development	39.849	47.902	25.335

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise	<b>Project (Number/Name)</b> 675183 / Common Development (Airborne SIGINT Development - Common Development)

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p><b>Description:</b> Develop and test common open architecture compliant SIGINT systems to include but not limited to CI-6, LOCUST, and CRESTONE. Additionally, will advance testing capabilities through the Open Architecture Technology Lab for current and future SIGINT sensors.</p> <p><b>FY 2024 Plans:</b></p> <ul style="list-style-type: none"> <li>- Develop new signals capabilities and enhancements. Details are classified.</li> <li>- Enhance OATL infrastructure to support future SIGINT sensor development and testing.</li> <li>- Pursue risk reduction and necessary follow-on support to CI-6 Family of Systems assessments and demonstrations conducted in FY22 and FY23.</li> <li>- Evaluate open architecture compliance of SIGINT sensor prototypes in the OATL.</li> <li>- Develop capabilities that address emerging needs, as identified by the SCWG.</li> <li>- Evaluate and test low-cost SIGINT solutions that will perform multiple intelligence collection capabilities in denied airspace. Details are classified.</li> </ul> <p><b>FY 2025 Plans:</b></p> <ul style="list-style-type: none"> <li>- Will continue to develop new signals capabilities and enhancements. Details are classified.</li> <li>- Will continue to enhance OATL infrastructure to support future SIGINT sensor development and testing.</li> <li>- Will continue to pursue risk reduction and necessary follow-on support to CI-6 Family of Systems, following assessments and demonstrations conducted in FY23 and FY24.</li> <li>- Will continue to evaluate open architecture compliance of SIGINT sensor prototypes in the OATL.</li> <li>- Will continue to develop capabilities that address emerging needs, as identified by the SCWG.</li> <li>- Will continue LOCUST development efforts and begin flight tests with DoD mission partners. Details are classified.</li> </ul> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Funding decrease in FY25 due to the termination of the GHOST program and realignment of funds to higher Air Force priorities.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	39.849	47.902	25.335

<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A
<b>Remarks</b>

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise	<b>Project (Number/Name)</b> 675183 / Common Development (Airborne SIGINT Development - Common Development)

**D. Acquisition Strategy**

SIGINT capabilities will be developed and integrated onto various platforms using an evolutionary acquisition approach to field incremental capability improvements, leveraging the OATL to incorporate platform agile, open system architecture. Attributable platforms and sensors will be evaluated as solutions to some requirements. Requirements are validated and prioritized by the SCWG (SIGINT Capability Working Group).

**UNCLASSIFIED**

<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2025 Air Force</b>											<b>Date: March 2024</b>				
<b>Appropriation/Budget Activity</b> 3600 / 7						<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise					<b>Project (Number/Name)</b> 675183 / Common Development (Airborne SIGINT Development - Common Development)				

<b>Product Development (\$ in Millions)</b>				<b>FY 2023</b>		<b>FY 2024</b>		<b>FY 2025 Base</b>		<b>FY 2025 OCO</b>		<b>FY 2025 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Open Architecture Technology Lab (OATL)	Various	AFRL / VTS / BRSC / NPD : Rome, NY	-	3.148	Apr 2023	4.500	Apr 2024	1.000	Apr 2025	-		1.000	Continuing	Continuing	-
CI-6 Sensor SW Development/Support	C/CPFF	BAE Systems : Hudson, NH	-	12.113	Aug 2023	14.609	May 2024	10.000	May 2025	-		10.000	Continuing	Continuing	-
CI-6 Ground SW Support/ Demo	C/CPFF	LM RMS : Littleton, CO	-	4.025	May 2023	2.994	May 2024	1.500	May 2025	-		1.500	Continuing	Continuing	-
CI-6 Aircraft Integration/ Demo	C/CPFF	LMA : Palmdale, CA	-	7.000	Aug 2023	4.906	May 2024	2.352	May 2025	-		2.352	Continuing	Continuing	-
Air Force SIGINT Architecture (AFSA)	Various	AECOM : Annapolis Junction, MD	-	2.798	Jan 2023	3.138	Jan 2024	1.483	Jan 2025	-		1.483	Continuing	Continuing	-
CRESTONE	Various	DOE / SNL : Albuquerque, NM	-	2.059	Aug 2023	7.220	Jun 2024	3.000	May 2025	-		3.000	Continuing	Continuing	-
LOCUST	Various	AFRL / VTS / BRSC / NPD : Rome, NY	-	2.711	Apr 2023	6.186	Mar 2024	2.500	Mar 2025	-		2.500	Continuing	Continuing	-
<b>Subtotal</b>			-	33.854		43.553		21.835		-		21.835	Continuing	Continuing	N/A

<b>Management Services (\$ in Millions)</b>				<b>FY 2023</b>		<b>FY 2024</b>		<b>FY 2025 Base</b>		<b>FY 2025 OCO</b>		<b>FY 2025 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
PMA	Various	Various : Dayton, OH	-	5.995	Jan 2023	4.349	Jan 2024	3.500	Jan 2025	-		3.500	Continuing	Continuing	-
<b>Subtotal</b>			-	5.995		4.349		3.500		-		3.500	Continuing	Continuing	N/A

	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>	
<b>Project Cost Totals</b>		-	39.849	47.902	25.335	-	25.335	Continuing	Continuing	N/A

**Remarks**  
 - Open Architecture Technology Lab (OATL) technology development and risk reduction efforts will continue to demonstrate rapid technology insertion.

**UNCLASSIFIED**

<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise	<b>Project (Number/Name)</b> 675183 / Common Development (Airborne SIGINT Development - Common Development)

FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

<b>SIGINT Common Development</b>	
Open Architecture Technology Lab (OATL)	[REDACTED]
Future SIGINT Programs	[REDACTED]
CI-6	[REDACTED]
Air Force SIGINT Architecture (AFSA)	[REDACTED]
CRESTONE	[REDACTED]
LOCUST	[REDACTED]

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise	<b>Project (Number/Name)</b> 675183 / Common Development (Airborne SIGINT Development - Common Development)

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>SIGINT Common Development</b>				
Open Architecture Technology Lab (OATL)	1	2023	4	2029
Future SIGINT Programs	1	2023	4	2029
CI-6	3	2023	4	2029
Air Force SIGINT Architecture (AFSA)	3	2023	4	2029
CRESTONE	3	2023	4	2029
LOCUST	4	2023	2	2026

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Air Force										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 3600 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise				<b>Project (Number/Name)</b> 675185 / COMPASS BRIGHT			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
675185: COMPASS BRIGHT	-	4.109	9.495	9.727	0.000	9.727	9.971	10.175	10.544	10.752	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

The COMPASS BRIGHT program develops projects in the SIGINT and MASINT areas for transition to the RC-135 fleet, additional DoD ISR platforms, and national agencies. This program pursues SIGINT technologies for program transition, to include Communications Intelligence (COMINT), Electronic Intelligence (ELINT), Audio, Analytics, Special Signals of Interest, and Radio Frequency Measurement and Signature Intelligence (MASINT). Compass Bright will pursue MULTI-INT capabilities such as but not limited to, cross-cue and fusion from other INTs such as Geospatial Intelligence (GEOINT), in order to create a holistic Intelligence, Surveillance, and Reconnaissance (ISR) picture for the warfighter and the IC. The COMPASS BRIGHT program objective is to mature technologies for application in SIGINT and MASINT systems or subsystems. Production and integration of these developed technologies will be conducted by the appropriate programs. COMPASS BRIGHT projects are selected through an annual data call process, whereby the USAF evaluates proposals from the laboratories, platforms, and other government agencies, to select those projects that are most promising.

The program office authority extends to accomplishment of out-of-cycle COMPASS BRIGHT efforts. These tasks may be filtered through the SIGINT Capability Working Group (SCWG) outside the normal vetting process to expedite acquisition of capabilities for the warfighter.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY23 \$0.0M was expended for civilian pay expenses in this program element, and in FY24 \$0.0M is forecasted for civilian pay expenses in this program element.

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<b>Title:</b> COMPASS BRIGHT Tech Development	4.109	9.495	9.727
<b>Description:</b> Develops projects in the SIGINT and MASINT areas for transition to the RC-135 fleet, other ISR platforms.			
<b>FY 2024 Plans:</b> - Initiate, continue, and complete various SIGINT projects to include enhanced ELINT exploitation, COMINT, Audio exploitation, signals of interest prosecution, and non-traditional ISR (NTISR).			
- FY25 Project selection process will be initiated.			
<b>FY 2025 Plans:</b>			

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise	<b>Project (Number/Name)</b> 675185 / COMPASS BRIGHT

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
- Will continue to initiate and complete various SIGINT projects to include enhanced ELINT exploitation, COMINT, Audio exploitation, signals of interest prosecution, and non-traditional ISR (NTISR).			
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Funding increase due to slight inflationary increase in budget.			
<b>Accomplishments/Planned Programs Subtotals</b>	4.109	9.495	9.727

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• APAF 05 Line Item DARP01: RC-135	213.428	220.138	222.498	-	222.498	255.856	230.948	235.755	-	Continuing	Continuing
• APAF 06 Line Item DARP01: RC-135	44.461	55.614	56.290	-	56.290	57.200	58.499	59.716	-	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

Air Force Life Cycle Management Center/Intelligence, Surveillance, and Reconnaissance and Special Operations Forces Directorate (AFLCMC/WI) will execute COMPASS BRIGHT and Operational Reconnaissance efforts through technology development and demonstration contracts which leverage existing laboratory relationships and other existing contractual vehicles, with future development projects emphasizing full and open competition.

On an annual basis, the SIGINT Capabilities Working Group (SCWG) reviews developmental technologies against warfighter capabilities and requirements based on strategic roadmaps. Projects advancing the technological maturity of promising sensors and processing capabilities are reviewed and prioritized into a recommended list for senior executive direction to implement for the coming fiscal year.

**UNCLASSIFIED**

**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise	<b>Project (Number/Name)</b> 675185 / COMPASS BRIGHT
--	--	---

<b>Product Development (\$ in Millions)</b>				<b>FY 2023</b>		<b>FY 2024</b>		<b>FY 2025 Base</b>		<b>FY 2025 OCO</b>		<b>FY 2025 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
COMPASS BRIGHT	Various	Multiple : Various	-	1.200	Nov 2022	1.039	Nov 2023	1.350	Nov 2024	-		1.350	Continuing	Continuing	-
AFRL/RI Projects	C/CPFF	Multiple : Rome/ Griffiss	-	2.159	Nov 2022	6.102	Nov 2023	6.023	Nov 2024	-		6.023	Continuing	Continuing	-
<b>Subtotal</b>			-	3.359		7.141		7.373		-		7.373	Continuing	Continuing	N/A

**Remarks**  
On an annual basis, the SIGINT Capabilities Working Group (SCWG) reviews developmental technologies against warfighter capabilities and requirements based on strategic roadmaps. Projects advancing the technological maturity of promising sensors and processing capabilities are reviewed and prioritized into a recommended list for senior executive direction to implement for the coming fiscal year.

<b>Management Services (\$ in Millions)</b>				<b>FY 2023</b>		<b>FY 2024</b>		<b>FY 2025 Base</b>		<b>FY 2025 OCO</b>		<b>FY 2025 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Compass Bright PMA	Various	Various : Various, OH	-	0.750	Jan 2023	2.354	Jan 2024	2.354	Jan 2025	-		2.354	Continuing	Continuing	-
<b>Subtotal</b>			-	0.750		2.354		2.354		-		2.354	Continuing	Continuing	N/A

<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
-	4.109	9.495	9.727	-	9.727	Continuing	Continuing	N/A

**Remarks**

**UNCLASSIFIED**

**Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise	<b>Project (Number/Name)</b> 675185 / COMPASS BRIGHT
--	--	---

FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

<b>COMPASS BRIGHT</b>	
SIGINT Technologies	
- ELINT Programs	
- COMINT Programs	
- Special Signals Programs	
- Audio Programs	
- Analytics Programs	

**UNCLASSIFIED**

**Exhibit R-4A, RDT&E Schedule Details:** PB 2025 Air Force **Date:** March 2024

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise	<b>Project (Number/Name)</b> 675185 / COMPASS BRIGHT
--	--	---

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>COMPASS BRIGHT</b>				
SIGINT Technologies	1	2023	4	2029
- ELINT Programs	1	2023	4	2029
- COMINT Programs	1	2023	4	2029
- Special Signals Programs	1	2023	4	2029
- Audio Programs	1	2023	4	2029
- Analytics Programs	1	2023	4	2029

**Note**

On an annual basis, the SCWG reviews developmental technologies against warfighter capabilities and requirements based on strategic roadmaps. Projects advancing the technological maturity of promising sensors and processing capabilities are reviewed and prioritized into a recommended list for senior executive direction to implement for the coming fiscal year. As a result, the USAF will move funds between projects periodically to develop the highest priority projects in response to urgent and emerging warfighter needs.

**UNCLASSIFIED**

**Exhibit R-2A, RDT&E Project Justification:** PB 2025 Air Force **Date:** March 2024

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise	<b>Project (Number/Name)</b> 675186 / Special Programs (Airborne SIGINT Development - Special Platforms)
--	--	---

COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
675186: <i>Special Programs (Airborne SIGINT Development - Special Platforms)</i>	-	14.927	8.107	8.305	0.000	8.305	8.511	8.686	9.001	9.178	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

This project supports special SIGINT studies as well as the development and integration of advanced SIGINT capabilities for special programs including, but not limited to: quick reaction capability sensors, the processing, exploitation, and dissemination associated with these systems, and other efforts approved by the USAF SCWG. Development efforts will include, but are not limited to: new signal sets, antenna improvements, sensitivity upgrades, and data distribution upgrades, and new/advanced deployment capabilities. This project provides the war fighter with near term combat capabilities with increased capability improvements accomplished as technologies and risks achieve satisfactory levels. Sensors will be integrated and tested on various platforms including the MQ-9A remotely piloted aircraft.

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

	FY 2023	FY 2024	FY 2025
<b>Title:</b> SIGINT Development	14.927	8.107	8.305
<b>Description:</b> Develop, update, and test SIGINT capabilities for QRC and normalized special programs SIGINT projects.			
<b>FY 2024 Plans:</b> - Continue to modernize SIGINT systems used by the MQ-9A and other platforms.			
<b>FY 2025 Plans:</b> - Will continue to modernize SIGINT systems used by the MQ-9A and other platforms.			
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Funding increase due to inflationary adjustments.			
<b>Accomplishments/Planned Programs Subtotals</b>	14.927	8.107	8.305

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

N/A

**Remarks**

**D. Acquisition Strategy**

SIGINT capabilities will be integrated to various classified platforms using an evolutionary acquisition approach. Capabilities and prototypes will be developed by Other Government Agencies and transitioned to select vendors as production needs develop.

**UNCLASSIFIED**

**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise	<b>Project (Number/Name)</b> 675186 / Special Programs (Airborne SIGINT Development - Special Platforms)
--	--	---

<b>Product Development (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Airborne SIGINT Development - Special Platforms	Various	Various : Various	-	14.590	Jan 2023	7.763	Jan 2024	7.868	Jan 2025	-		7.868	Continuing	Continuing	-
<b>Subtotal</b>			-	14.590		7.763		7.868		-		7.868	Continuing	Continuing	N/A

**Remarks**  
Upgrades the quick reaction capability sensors already on the MQ-1/9 fleet

<b>Test and Evaluation (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Flight Test	Various	Various : Various	-	0.337	May 2023	0.344	May 2024	0.437	May 2025	-		0.437	Continuing	Continuing	-
<b>Subtotal</b>			-	0.337		0.344		0.437		-		0.437	Continuing	Continuing	N/A

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>		-	14.927	8.107	8.305	8.305	Continuing	Continuing	N/A

**Remarks**

**UNCLASSIFIED**

<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise	<b>Project (Number/Name)</b> 675186 / Special Programs (Airborne SIGINT Development - Special Platforms)

FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

<b>SIGINT Development</b>	
MQ-9 Sensor 1 Modernization	
MQ-9 Sensor 2 Modernization	
MQ-9 Sensor Upgrades	

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0304260F / Airborne SIGINT Enterprise	<b>Project (Number/Name)</b> 675186 / Special Programs (Airborne SIGINT Development - Special Platforms)

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>SIGINT Development</b>				
MQ-9 Sensor 1 Modernization	1	2023	4	2029
MQ-9 Sensor 2 Modernization	1	2023	4	2029
MQ-9 Sensor Upgrades	1	2023	4	2029