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

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604257F / <i>Advanced Technology and Sensors</i>
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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	-	12.311	27.650	24.204	0.000	24.204	49.765	51.086	22.653	11.522	Continuing	Continuing
642001: <i>Next Gen Sensors Tech Maturation/Risk Reduction</i>	-	0.000	12.461	8.742	0.000	8.742	34.024	35.133	6.344	0.000	Continuing	Continuing
644818: <i>Imaging and Targeting Support</i>	-	12.311	15.189	15.462	0.000	15.462	15.741	15.953	16.309	11.522	Continuing	Continuing

Note

In FY2024 PE 0305206F Project 672001 efforts were transferred to PE 0604257F Project 642001 in order to continue development, tech maturation, and risk reduction for the Next Generation Sensor portfolio.

A. Mission Description and Budget Item Justification

The Advanced Technology and Sensors (ATS) program coordinates the development of platform-agile advanced technologies (sensors, low-cost, low-SWAP attributable ISR sensors, data links, targeting support, and quick reaction capabilities) in support of High-Altitude Long Endurance (HALE) platforms, manned and unmanned airborne reconnaissance platforms, Autonomous Collaborative Platforms, and Collaborative Combat Aircraft (CCA). Its objectives are to develop, demonstrate, and rapidly transition advanced, interoperable, multi-platform solutions to reduce the find, fix, target, and track kill chain timeline. This program coordinates the development of common collection, processing, and dissemination solutions for near-real time intelligence, surveillance, and reconnaissance. The ATS program also increases interoperability by developing common standards and interfaces.

Imaging & Targeting Support (I&TS) funds in this program are distributed in priority order for the goal of building a comprehensive Geospatial Intelligence (GEOINT) capability for the USAF. On an annual basis, developmental technologies are reviewed against warfighter capabilities and requirements based on strategic roadmaps and on the results of the Airborne Sensors for ISR Analysis of Alternatives, as prefaced in the Challenging Targets Initial Capabilities Document. Efforts advancing the technological maturity of promising sensors and processing capabilities are reviewed and prioritized into a recommended list for senior executive direction to implement in the coming year. The program office has the ability to rapidly initiate an I&TS project in order to expedite development and acquisition of urgently needed capabilities for the warfighter.

Next Generation Sensors Risk Reduction (NGS-RR) is a platform-agile suite of sensor technologies defined for the best flexibility and capability for an ever-changing scale of ISR missions. NGS-RR will further technology maturation and risk reduction of selected technologies initiated under I&TS culminating in an operational prototype demonstration. Execution of the NGS-RR activities is founded upon three pillars: Open Standards, Artificial Intelligence (AI)/Machine Learning (ML) algorithms, and Advanced Platform-Agile Sensors. The power behind the NGS-RR program is an open architectural system design that enables rapid third-party software and line replaceable unit insertion/replacement allowing for DevSecOps execution, onboard multi-modal and multi-INT processing real-time, sensor cross-cueing, and AI/ML application. The AI/ML algorithms will be used to enable assisted target detection and identification. NGS-RR will anticipate and more quickly counter adversaries' future improvements in their abilities to hide from and defeat ISR sensors. NGS-RR efforts include but are not limited to: Advanced Platform-Agile Sensors, Assisted Target Recognition for ISR (ATRI), and Digital Engineering (DE), to include Model-Based Systems Engineering (MBSE).

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604257F / <i>Advanced Technology and Sensors</i>
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The open standards pillar of next generation capabilities is supported through Sensors Open Systems Architecture (SOSA) which coordinates advanced technologies and open architecture development for multi-INT sensor modalities. Consistent with the NDS, algorithms are multi-INT sensor agile that are submitted for formal adoption by the DOD-Intelligence Community (IC), Joint Enterprise Standards Committee (JESC), GEOINT and SIGINT standards groups. The platform agile sensors pillar of next-generation capabilities will be supported by developing scalable sensors using both off-the-shelf and emerging sensors suites from the labs, industry, and other Government agencies.

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

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.”

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary (\$ in Millions)	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>
Previous President's Budget	12.311	27.650	24.161	0.000	24.161
Current President's Budget	12.311	27.650	24.204	0.000	24.204
Total Adjustments	0.000	0.000	0.043	0.000	0.043
• 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	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	0.043	0.000	0.043

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force										Date: March 2024		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604257F / <i>Advanced Technology and Sensors</i>				Project (Number/Name) 642001 / <i>Next Gen Sensors Tech Maturation/Risk Reduction</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
642001: <i>Next Gen Sensors Tech Maturation/Risk Reduction</i>	-	0.000	12.461	8.742	0.000	8.742	34.024	35.133	6.344	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Next Generation Sensors Risk Reduction (NGS-RR) program seeks to change the paradigm of Intelligence, Surveillance, and Reconnaissance (ISR) sensor acquisitions to deliver mission critical technology more quickly and cost effectively. NGS-RR is a platform-agile suite of sensor technologies defined for the best flexibility and capability for an everchanging scale of ISR missions. The power behind the NGS-RR program is an opportunistic modular approach using open architectural system designs that enables: individual sensor upgrades, enhancements, mission-specific mode(s), algorithm applications, establishing a path to on-board multimodal and multi-INT processing, sensor cross-cueing, and artificial intelligence applications. NGS-RR efforts include but are not limited to: Sense and Sense-making Demonstrator (MEDUSA), Advanced Platform-Agile Sensors, AI-based Utility for Robust Object Recognition Architecture (AURORA), and Digital Engineering (DE), to include Model Based Systems Engineering (MBSE). The focus is on maturing platform agile, low-SWAP/low-cost attritable ISR sensors and algorithms developed under Imaging and Targeting Support culminating in a fieldable prototype demonstration through MEDUSA with a modular payload or using an AgilePod in support of integration with High Altitude Long Endurance (HALE) platforms, manned and unmanned airborne reconnaissance platforms, Autonomous Collaborative Platforms, and Collaborative Combat Aircraft.

NGS-RR program efforts are set by capability gaps within the Challenging Targets Initial Capabilities Document and as approved by the Capabilities Decision Memorandum (Signed Jan 2019). These requirements have been further verified, modeled, and developed through the Airborne Sensors for ISR (ASI) Analysis of Alternatives (AoA). Program requirements were further defined in the NGS-RR Draft Capability Development Document (DCDD) approved on 21 February 2021.

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)

	FY 2023	FY 2024	FY 2025
Title: Next Gen Sensors Tech Maturation/Risk Reduction	0.000	12.461	8.742
Description: Mold current and future ISR into a platform-agile, non-proprietary, autonomous multi-INT cross cueing solution that is designed based on mission requirements. Sensors will have to penetrate up to highly contested domains and survive to operate. This project will also increase interoperability by developing common standards and interfaces for mission and sensor systems.			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604257F / <i>Advanced Technology and Sensors</i>	Project (Number/Name) 642001 / <i>Next Gen Sensors Tech Maturation/Risk Reduction</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p><i>FY 2024 Plans:</i> - Continue development of real-time multi-domain battlespace awareness in highly contested environments. Mature open architectures for ISR systems including cybersecurity analysis, industry standardization, and open architecture demonstrations.</p> <p><i>FY 2025 Plans:</i> - Will continue development of real-time multi-domain battlespace awareness in highly contested environments. Mature open architectures for ISR systems including cybersecurity analysis, industry standardization, and open architecture demonstrations.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Funding decreased due to a reduction in lab test hardware equipment and requirements for the MEDUSA demonstrator.</p>			
Accomplishments/Planned Programs Subtotals	0.000	12.461	8.742

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

N/A

Remarks

D. Acquisition Strategy

NGS activities will leverage parallel development activities and integrate them with a risk-informed approach to develop and demonstrate NGS capabilities that meet military needs under operationally-relevant environments and conditions. This program has established a forum of stakeholders, consisting of multiple Other Government Agencies (OGAs), end-users, and MAJCOMs to ensure that the program deliverables are answering identified warfighter needs, to ensure a clear and concise technology transition path.

The acquisition strategy is to maximize commercial and national development efforts and investment through multiple contracting methods, including the use of engineering change proposals to modify existing contracts and new contracts that were awarded both competitively or on a sole source basis.

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

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604257F / <i>Advanced Technology and Sensors</i>	Project (Number/Name) 642001 / <i>Next Gen Sensors Tech Maturation/Risk Reduction</i>
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Product Development (\$ in Millions)				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			
Sense and Sense-making Demonstrator (MEDUSA)	Various	Various: TBD : TBD	-	-		6.051	Dec 2023	5.438	Nov 2024	-		5.438	Continuing	Continuing	-
AURORA	Various	Various: TBD : TBD	-	-		1.225	Dec 2023	0.000		-		0.000	Continuing	Continuing	-
Digital Engineering (DE), Model Based Systems Engineering (MBSE)	Various	Various: TBD : TBD	-	-		2.464	Nov 2023	2.538	Nov 2024	-		2.538	Continuing	Continuing	-
Subtotal			-	-		9.740		7.976		-		7.976	Continuing	Continuing	N/A

Management Services (\$ in Millions)				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			
PMA: Other Govt Cost	Various	Various: TBD : TBD	-	-		2.721	Nov 2023	0.766	Nov 2024	-		0.766	Continuing	Continuing	-
Subtotal			-	-		2.721		0.766		-		0.766	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
Project Cost Totals			-	-	12.461	8.742	-	8.742	Continuing	Continuing	N/A

Remarks
 FY24 Next Generation Sensors moved from ARS PE 0305206F BPAC 672001 to ATS PE 0604257F BPAC 642001 for continued development, tech maturation, and risk reduction.

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604257F / <i>Advanced Technology and Sensors</i>	Project (Number/Name) 642001 / <i>Next Gen Sensors Tech Maturation/Risk Reduction</i>

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

NGS Tech Maturation & Risk Reduction	
Sense and Sense-making Demonstrator (MEDUSA)	
AURORA	
Model Based Systems Engineering	

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604257F / <i>Advanced Technology and Sensors</i>	Project (Number/Name) 642001 / <i>Next Gen Sensors Tech Maturation/Risk Reduction</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
NGS Tech Maturation & Risk Reduction				
Sense and Sense-making Demonstrator (MEDUSA)	1	2024	4	2029
AURORA	1	2024	4	2029
Model Based Systems Engineering	1	2024	4	2029

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force										Date: March 2024		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604257F / <i>Advanced Technology and Sensors</i>				Project (Number/Name) 644818 / <i>Imaging and Targeting Support</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
644818: <i>Imaging and Targeting Support</i>	-	12.311	15.189	15.462	0.000	15.462	15.741	15.953	16.309	11.522	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Imaging and Targeting Support (I&TS) develops, matures, and proves next generation sensor capabilities. It provides a key linkage between government and industry research labs by fielding DoD GEOINT tools with the flexibility to adapt each development cycle to the evolving mission set and threat situation. I&TS supports DAF requirements using an annual cycle approach for continuous innovation that is prioritized by the GEOINT Capabilities Working Group (GCWG). I&TS program funds are distributed to projects based on the development priorities established by the USAF GCWG, which is chartered to guide the I&TS capability investment. When required, the USAF may move funds between I&TS projects, developing the highest priority projects in response to urgent (e.g., JUON) and emerging (e.g., JEON) warfighter needs.

Adversary targets are aggressively increasing in both scale and complexity. Airborne GEOINT capabilities are complementary to spaceborne data collection due to their traceability and the contested nature of overhead environments. I&TS implements an annual process to identify focus areas that accelerates critical sensing technology, governed by the GCWG, which represents sponsors, acquirers, and warfighters.

Advancements focus on: Electro-optics (EO), Infrared (IR), Radar/Synthetic Aperture Radar (SAR), Hyperspectral Imagery (HSI), Light Detection and Ranging (LiDAR), acoustics, geolocation accuracy, and multi-INT collection. In addition to these modalities, this program also incorporates associated reductions in the find, fix, and track kill chain as well as reductions in Size, Weight, Power, and Cost (SWAP-C). Artificial Intelligence (AI) and Machine Learning (ML) are among techniques employed to expedite the kill chain.

Sensing enhancements include but are not limited to:

Radar:

- Inverse Synthetic Aperture Radar (ISAR)/Maritime Modes
- Air to Air modes
- Ground Moving Target Indicator (GMTI)
- Bi-statics
- Dismount detection
- Polarimetric Imaging
- Foliage Penetration (FOPEN)

HSI:

- Spectral Identification

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

- Autonomous Collaborative Platforms
- Sensor orchestration, queuing, and data fusion

Expedite the Kill Chain:

- Automatic Targeting Recognition (ATR) algorithms
- Near Real Time/On-Edge Targeting and dissemination

This program uses modular and open system hardware and software approaches to accelerate integration efforts and facilitate transition. This includes AgilePod, Sensor Open System Architecture (SOSA), Open Mission System (OMS), Common Open Architecture Radar Program (COARPS), Kubernetes (K8s), and common interfaces.

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)

	FY 2023	FY 2024	FY 2025
<p>Title: Imaging & Targeting Support (I&TS)</p> <p>Description: Corporately prioritized Air Force Multi-INT Portfolio of projects to develop and demonstrate next generation airborne sensors and processing technologies to further the art of the possible and/or transition ISR capabilities (ex: radar improvement, next-generation HSI, LIDAR, ISR Standards, EO/IR, and data mitigation technologies).</p> <p>FY 2024 Plans: Develop, modernize, and demonstrate lower TRL ISR projects for advancement up to and including prototyping and operational demonstrations. The following FY23 efforts will continue into FY24:</p> <ul style="list-style-type: none"> • GMTI Mode • Automatic Image Registration • Aether Spy Digital T/R Module (DSTIC) Maturation • Magic Heat, Birdbox v2 • These efforts and new proposed projects will be approved through the GEOINT Capabilities Working Group (GCWG) Executive Element process. Efforts are approved in the summer prior to the start of the new fiscal year. 	12.311	15.189	15.462

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604257F / <i>Advanced Technology and Sensors</i>	Project (Number/Name) 644818 / <i>Imaging and Targeting Support</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<ul style="list-style-type: none"> Initiate FY24 approved projects (Collaborative Teaming, Classified Algorithm, Aether Spy DSTIC, GMTI Mode, Automatic Image Registration, Resolute Sentry/Birdbox risk reduction) <p>FY 2025 Plans:</p> <ul style="list-style-type: none"> Will continue the execution of FY24 projects Will initiate the FY25 GCWG prioritized projects <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is due to minor inflationary adjustments.</p>			
Accomplishments/Planned Programs Subtotals	12.311	15.189	15.462

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

N/A

Remarks

D. Acquisition Strategy

The Imaging and Targeting Support efforts are prioritized on an annual basis by the GCWG in accordance with the validated gaps in the Challenging Targets Initial Capabilities Document. The resulting funded efforts are then contracted for and/or executed by various program offices, laboratories, industry, and/or other government agencies.

The acquisition strategy is to maximize commercial and national development efforts and investment through multiple contracting methods, including the use of Engineering Change Proposals, to modify existing and new contracts that were awarded both competitively and on a sole source basis.

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

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604257F / <i>Advanced Technology and Sensors</i>	Project (Number/Name) 644818 / <i>Imaging and Targeting Support</i>
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Product Development (\$ in Millions)				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			
Aether Spy DSTIC Maturation	SS/CPFF	Northrup Grumman, various : Falls Church, VA	-	3.000	Mar 2023	2.800	Nov 2023	-		-		-	Continuing	Continuing	-
MAGIC Heat	SS/CPFF	BAE Systems : Durham, NC	-	0.907	Dec 2022	1.598	Nov 2023	-		-		-	Continuing	Continuing	-
BirdBox V2 ATR in HCE	SS/CPFF	AFRL, Multiple Vendors : Dayton, OH	-	1.201	Mar 2023	3.165	Nov 2023	-		-		-	Continuing	Continuing	-
Massed Sensing	SS/CPFF	AFRL, Multiple vendors : Dayton, OH	-	1.000	Mar 2023	0.000	Jan 2024	-		-		-	Continuing	Continuing	-
GMTI	SS/CPFF	Lockheed Martin : Arlington, VA	-	2.000	Dec 2022	-		-		-		-	Continuing	Continuing	-
Automatic Image Registration	SS/CPFF	Lockheed Martin : Arlington, VA	-	1.500	Dec 2022	-		-		-		-	Continuing	Continuing	-
MEDUSA	SS/CPFF	MIT/LL : Boston, MA	-	2.077	May 2023	-		-		-		-	Continuing	Continuing	-
AMTI Study	SS/CPFF	update : update	-	-		2.000	Apr 2024	-		-		-	Continuing	Continuing	-
Rubber Duckie	SS/CPFF	update : update	-	-		2.000	Nov 2023	-		-		-	Continuing	Continuing	-
Collaborative Teaming	SS/CPFF	update : update	-	-		2.900	Apr 2024	-		-		-	Continuing	Continuing	-
New Technology Efforts (Prioritized by GCWG)	Various	Various : Various	-	0.039	Oct 2023	0.173	Apr 2024	13.562	Jan 2025	-		13.562	Continuing	Continuing	-
Subtotal			-	11.724		14.636		13.562		-		13.562	Continuing	Continuing	N/A

Management Services (\$ in Millions)				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			
Program Support Costs (PSC) Other Gvmt Cost	Various	Various : Dayton, OH	-	0.587	Dec 2022	0.553	Dec 2023	1.900	Dec 2024	-		1.900	Continuing	Continuing	-
Subtotal			-	0.587		0.553		1.900		-		1.900	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604257F / <i>Advanced Technology and Sensors</i>	Project (Number/Name) 644818 / <i>Imaging and Targeting Support</i>

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

<i>Imaging and Targeting Support</i>																												
Aether Spy																												
MAGIC Heat																												
BirdBox V2 ATR in HCE																												
Massed Sensing																												
GMTI																												
Automatic Image Registration																												
MEDUSA																												
AMTI Study																												
Rubber Duckie																												
Collaborative Teaming																												
GCWG Technology Efforts																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604257F / <i>Advanced Technology and Sensors</i>	Project (Number/Name) 644818 / <i>Imaging and Targeting Support</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Imaging and Targeting Support</i>				
Aether Spy	2	2023	2	2025
MAGIC Heat	1	2023	4	2024
BirdBox V2 ATR in HCE	2	2023	2	2024
Massed Sensing	2	2023	3	2024
GMTI	1	2023	4	2024
Automatic Image Registration	1	2023	4	2024
MEDUSA	2	2023	4	2024
AMTI Study	3	2024	4	2025
Rubber Duckie	1	2023	4	2024
Collaborative Teaming	3	2024	4	2025
GCWG Technology Efforts	1	2023	4	2029