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

Appropriation/Budget Activity 3620F: <i>Research, Development, Test & Evaluation, Space Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 1203330SF / <i>Space Superiority ISR</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	-	29.128	28.730	28.227	0.000	28.227	24.668	22.086	22.881	23.332	Continuing	Continuing
67A051: <i>Space Superiority - Advanced Intelligence Systems</i>	-	29.128	28.730	28.227	0.000	28.227	24.668	22.086	22.881	23.332	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Space Superiority Intelligence, Surveillance and Reconnaissance (ISR) (SSI) program provides ISR for key find, fix, track, target, engage, and assess requirements supporting Space Superiority activities meeting Combatant Command (CCMD) needs for Space Operations Command (SpOC). SSI funds developmental intelligence activities to support new space superiority capability acquisition and development. Funds associated developmental ISR Planning and direction, Collection, Processing and exploitation, Analysis and production, Dissemination and integration (PCPAD) capabilities providing Battlespace Awareness and Space Domain Awareness (SDA) in support of Space Superiority and Space Control. This includes funding for fixed and transportable intelligence collection; Processing, Exploitation and Dissemination (PED); analysis and production capabilities that are modular (plug-and-play); meet Risk Management Framework Accreditation requirements and can keep pace with technological advances and emerging threats. It provides intelligence support systems for SDA activities that provide the requisite current and predictive knowledge of space events and threat conditions and intelligence support to the Space Security and Defense Program (SSDP) by providing architectural survivability analysis of critical mission assets for mission assurance, as well as network analysis. It also supports specialized/tailored, phased threat system analysis and studies (A&S), test support, lab equipment, and Material Acquisition and Exploitation (MAE) for system development, vulnerability, susceptibility assessments to support tactics, techniques and procedures (TTP) development, and future threat technology studies necessary for mission area success, achievement of space superiority, and to preserve the US space advantage across all domains.

Space acquisition must respond with speed and agility to the proliferation of emerging space adversary threats and new technologies. In support of these nascent, cutting edge space acquisition capabilities, Space Superiority ISR provides exquisite, crucial cryptologic and ISR through transformational collection and production activities through the rapid development and fielding of fixed and transportable intelligence architectures capable of front-end collection and analysis of new technologies in near real time. Space Superiority and Space Control is only realized through Space Superiority ISR support on the front end of space acquisition, allowing increased innovation and resiliency in support of changing program/project priorities to respond and to operate in the contested space domain, as well as supporting lifecycle experimentation, prototyping, and risk reduction.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	29.128	28.730	28.777	0.000	28.777
Current President's Budget	29.128	28.730	28.227	0.000	28.227
Total Adjustments	0.000	0.000	-0.550	0.000	-0.550
• 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	-0.550	0.000	-0.550

Change Summary Explanation

FY 2025: The FY 2025 funding request was reduced by \$0.550 million to account for the availability of prior year execution balances.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Title: Advanced Intelligence Systems for Space Superiority	29.128	28.730	28.227
Description: Develops transportable and fixed PCPAD capabilities.			
FY 2024 Plans: Funding completes the deliveries of the remaining large antennas to SSI Enterprise sites under the multi-year capability delivery task order. Continues development of mission management planning enhancements and robust collection automation capability. Focuses on PED of ISR Enterprise data via automation, artificial intelligence, high speed connectivity and digital processing through the multiple phases of the ISR mission. Delivers additional antenna refurbishments and upgrades to 73 ISR Squadron's OCONUS locations; includes delivery, site integration, Requirements Management Framework (RMF), Authority to Operate (ATO), and testing of systems. Provides ISR processing capability updates, and automated mission management to 72 ISR Squadron, Peterson SFB, CO in support of Continental United States (CONUS)-based deployable Tactical ISR Operations Cells (TISROCs)/Deployable ISR Support Cells (DISCs) to meet USSF Service-retained and CCMD ISR requirements. Implements a Radio Frequency (RF) search and survey tool enhancement. Expands Long Haul Communications bandwidth and connects new units. Continues funding for analytic exploitation, vulnerability and susceptibility tools enhancements. Supports Space ISR Cell and associated Space ISR Roadmap requirements, material solutions analysis and other functions for development and fielding SDA capabilities, including a Data Management System to archive and make mission data discoverable, an ISR exploitation tool suite, and cross-domain data dissemination to CCMDs, IC and National Agencies.			
FY 2025 Plans:			

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Will continue the development/delivery of fixed collection capabilities for 73 ISR Squadron. Begins complete transformation of Space ISR deployable capabilities through initiation of multi-year, collection capability refresh for 72 ISRS, Peterson SFB, CO in support of Continental United States (CONUS)-based deployable Tactical ISR Operations Cells (TISROCs)/Deployable ISR Support Cells (DISCs) to meet USSF Service-retained and CCMD ISR requirements. Completes development, installation, and Authority to Operate (ATO) of mission management planning enhancements and robust collection automation capability. Continues enhancement of fixed/mobile ISR Processing, Exploitation and Dissemination (PED) capabilities via latest hardware/software technology, automation, artificial intelligence, high speed connectivity and digital processing. Instantiates a Radio Frequency search and survey tool enhancement. Continues enhancements to data dissemination capabilities. Continues funding for updates to analytic exploitation, vulnerability and susceptibility tools. Second year of FY24 RDT&E funding, in FY25, also supports multi-INT Space ISR PED Cell (SIPC) fused intelligence for ISR operations in support of operations; development of operational techniques, tactics, and procedures (TTPs) development and associated Space ISR Roadmap requirements, material solutions analysis and other functions for development and fielding Space Domain Awareness (SDA) capabilities, including a Data Management System to archive and make mission data discoverable, a ISR exploitation tool suite, and cross-domain data dissemination to CCMDs, IC and National Agencies.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> FY25 decreased due to inflation rate adjustments.</p>			
Accomplishments/Planned Programs Subtotals	29.128	28.730	28.227

D. Other Program Funding Summary (\$ in Millions)
N/A

Remarks

E. Acquisition Strategy
All contracts funded in this program will be awarded using competitive procedures to the maximum extent possible.

Space Superiority and R&D Intelligence Development: Single Delivery, Cost-Plus-Fixed-Fee (CPFF), advisory and assistance contractor supporting development and implementation efforts, such as engineering architectural development and planning and Requirements Management Framework (RMF) certifications to operate. Prime contractor is HII.

Architecture upgrades to SDA, SSDP, and Space Superiority: Multiple Delivery, CPFF integration contract for acquiring, integration, installation and testing of ISR collection assets. Prime contractor is CACI/BITSYSTEMS Data Analysis.

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Appropriation/Budget Activity	R-1 Program Element (Number/Name)
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Data Analysis, Production Development, Test Support for R&D: Multiple Delivery, CPFF production contract supporting vulnerabilities analysis of ISR collected material. Prime Contractor is Booz-Allen Hamilton

ISR Cell for Data Management Archiving, Exploitation and Dissemination: TBD Multiple Delivery, CPFF integration contract providing Data Management System, Exploitation Tool Suites and Cross-Domain Data Dissemination Solution new capability development. Prime contractor is Various (Tyto, AT&T, PRKK, & MITRE) in FY 2024.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force												Date: March 2024			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
3620F / 7				PE 1203330SF / Space Superiority ISR				67A051 / Space Superiority - Advanced Intelligence Systems							
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Space Superiority and R&D Intelligence Development	C/CPFF	Various: TBD : TBD	-	1.500	Nov 2022	1.470	Nov 2023	1.770	Nov 2024	-		1.770	Continuing	Continuing	-
Architecture Upgrades to SDA, SSDP, and Space Superiority	C/CPFF	Various: TBD : TBD	-	18.359	Dec 2022	17.306	Dec 2023	20.803	Dec 2024	-		20.803	Continuing	Continuing	-
Data Analysis, Product Development & Test Support for R&D	C/CPFF	Various: TBD : TBD	-	4.601	Nov 2022	6.298	Nov 2023	5.422	Nov 2024	-		5.422	Continuing	Continuing	-
Space ISR PED Cell (SIPC) for Data Management Archiving, Exploitation and Dissemination	C/CPFF	Various: TBD : TBD	-	4.444	Jan 2023	3.432	Jan 2024	0.000		-		0.000	Continuing	Continuing	-
Subtotal			-	28.904		28.506		27.995		-		27.995	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Mission Support	C/Various	TBD : TBD	-	0.224	Oct 2022	0.224	Oct 2023	0.232	Oct 2024	-		0.232	Continuing	Continuing	-
Subtotal			-	0.224		0.224		0.232		-		0.232	Continuing	Continuing	N/A
Project Cost Totals			-	29.128		28.730		28.227		-		28.227	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force		Date: March 2024
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	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
Space Superiority ISR																												
Space Superiority and R&D Intelligence Development	[REDACTED]																											
Architecture Upgrades to SDA, SSDP, and Space Superiority	[REDACTED]																											
Data Analysis, Production Development and Test Support for R&D	[REDACTED]																											
Space ISR PED Cell (SIPC) for Data Management Archiving, Exploitation and Dissemination	[REDACTED]																											

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

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Space Superiority ISR</i>				
Space Superiority and R&D Intelligence Development	1	2023	4	2029
Architecture Upgrades to SDA, SSDP, and Space Superiority	1	2023	4	2029
Data Analysis, Production Development and Test Support for R&D	1	2023	4	2029
Space ISR PED Cell (SIPC) for Data Management Archiving, Exploitation and Dissemination	2	2023	4	2025

Note

Note that SIPC is not slated to receive FY25 RDT&E funds; Second year FY24 RDT&E funds will be used in FY25.