

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Air Force **Date:** March 2023

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>
---	---

COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	-	18.109	29.128	28.730	0.000	28.730	28.777	24.626	22.045	22.839	Continuing	Continuing
67A051: <i>Space Superiority - Advanced Intelligence Systems</i>	-	18.109	29.128	28.730	0.000	28.730	28.777	24.626	22.045	22.839	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.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Air Force				Date: March 2023	
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>			
B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	18.109	29.128	28.601	0.000	28.601
Current President's Budget	18.109	29.128	28.730	0.000	28.730
Total Adjustments	0.000	0.000	0.129	0.000	0.129
• 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	0.129	0.000	0.129
C. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Advanced Intelligence Systems for Space Superiority	18.109	29.128	28.730	0.000	28.730
Description: Develops transportable and fixed PCPAD capabilities.					
FY 2023 Plans: Continues Space Superiority RDT&E through transformation of antiquated collection and production capabilities within the SpOC Space ISR Enterprise (SSI Enterprise). Begins mission management enhancements. Provides multiple antenna systems to 73 ISRS Overseas Continental United States (OCONUS) locations; includes delivery, site integration, and testing for systems. Provides ISR capabilities to 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. Enhances Long Haul Communications Infrastructure to speed dissemination of collected intelligence to analytic elements within the SSI Enterprise. Funds enhancements to analytic exploitation, vulnerability and susceptibility tools. In addition to replacing legacy systems, enhances automation, enabling the SSI Enterprise to more quickly respond to ISR needs. FY23 funding implements system resiliency and situational awareness necessary to operate in the contested space domain. Funding also supports ISR Cell that develops and fields Data Management System to archive mission data, exploitation tool suite, and cross-domain data dissemination to CCMDs, IC and National Agencies.					
FY 2024 Base Plans:					

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Air Force	Date: March 2023
--	-------------------------

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>
---	---

C. Accomplishments/Planned Programs (\$ in Millions)

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<p>Continues transformation by completing 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 the Special Mission Enterprise via automation, artificial intelligence, high speed connectivity and digital processing through the multiple phases of the ISR mission. Delivers multiple additional antenna refurbishments and upgrades to 73 ISRS OCONUS locations; includes delivery, site integration, Requirements Management Framework (RMF) authority to operate and testing for systems. Provides ISR analytic capability updates and automated mission management to 72 ISRS, Peterson SFB, CO in support of CONUS-based deployable TISROCs/DISCs to meet USSF Service-retained and CCMD ISR requirements. Implements a Radio Frequency search and survey tool enhancement. Expands Long Haul Communications bandwidth and connects new units. Continues funding for analytic exploitation, vulnerability and susceptibility tools enhancements. Funding also supports 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 mission data, exploitation tool suite, and cross-domain data dissemination to CCMDs, IC and National Agencies.</p> <p>FY 2024 OCO Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Slight decrease is the result of multiple on-going activities to the Space ISR enterprise and completed the multi-year task order to conclude the replacement of decades old legacy collection capabilities at Space ISR sites. Emphasis in FY24 focuses on the speeding of the Processing, Exploitation, and Dissemination (PED) for terrestrial-based enterprise via automation, artificial intelligence, high speed connectivity and digital processing through the multiple phases of the ISR mission. Includes fixes and upgrades for antiquated front-end and back-end hardware and software at multiple CONUS/OCONUS fixed sites; equips multiple CONUS-based deployable TISROCs/DISCs to meet USSF Service-retained and CCMD ISR requirements, via ease of use and process speed upgrades. Enables and speeds automated operations and transport of ISR data for acquisition and operations support, including Automated Mission Management and PED systems. Incrementally continues capability development and deliveries for ISR Cell.</p>					
Accomplishments/Planned Programs Subtotals	18.109	29.128	28.730	0.000	28.730

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

N/A

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Air Force	Date: March 2023
--	-------------------------

Appropriation/Budget Activity
3620F: *Research, Development, Test & Evaluation, Space Force I BA 7: Operational Systems Development*

R-1 Program Element (Number/Name)
PE 1203330SF / *Space Superiority ISR*

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

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 MacAulay-Brown.

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.

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 2023.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Air Force **Date:** March 2023

Appropriation/Budget Activity 3620F / 7	R-1 Program Element (Number/Name) PE 1203330SF / <i>Space Superiority ISR</i>	Project (Number/Name) 67A051 / <i>Space Superiority - Advanced Intelligence Systems</i>
---	---	---

Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Space Superiority and R&D Intelligence Development	C/CPFF	Various: TBD : TBD	-	1.856	Nov 2021	1.500	Nov 2022	1.530	Nov 2023	-		1.530	Continuing	Continuing	-
Architecture Upgrades to SDA, SSDP, and Space Superiority	C/CPFF	Various: TBD : TBD	-	10.736	Jun 2022	18.359	Dec 2022	18.508	Dec 2023	-		18.508	Continuing	Continuing	-
Data Analysis, Product Development & Test Support for R&D	C/CPFF	Various: TBD : TBD	-	5.298	Nov 2021	4.601	Nov 2022	4.693	Nov 2023	-		4.693	Continuing	Continuing	-
ISR Cell for Data Management Archiving, Exploitation and Dissemination	C/CPFF	Various: TBD : TBD	-	-		4.444	Jan 2023	3.771	Jan 2024	-		3.771	Continuing	Continuing	-
Subtotal			-	17.890		28.904		28.502		-		28.502	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Mission Support	C/Various	TBD : TBD	-	0.219	Oct 2021	0.224	Oct 2022	0.228	Oct 2023	-		0.228	Continuing	Continuing	-
Subtotal			-	0.219		0.224		0.228		-		0.228	Continuing	Continuing	N/A

			Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	18.109	29.128	28.730	-	28.730	Continuing	Continuing	N/A

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3620F / 7	R-1 Program Element (Number/Name) PE 1203330SF / <i>Space Superiority ISR</i>	Project (Number/Name) 67A051 / <i>Space Superiority - Advanced Intelligence Systems</i>

	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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>Space Superiority ISR</i>																												
Space Superiority and R&D Intelligence Development																												
Architecture Upgrades to SDA, SSDP, and Space Superiority																												
Data Analysis, Production Development and Test Support for R&D																												
ISR Cell for Data Management Archiving, Exploitation and Dissemination																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3620F / 7	R-1 Program Element (Number/Name) PE 1203330SF / <i>Space Superiority ISR</i>	Project (Number/Name) 67A051 / <i>Space Superiority - Advanced Intelligence Systems</i>

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	2022	4	2028
Architecture Upgrades to SDA, SSDP, and Space Superiority	1	2022	4	2028
Data Analysis, Production Development and Test Support for R&D	1	2022	4	2028
ISR Cell for Data Management Archiving, Exploitation and Dissemination	2	2023	4	2028