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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2023 Air Force **Date:** April 2022

<b>Appropriation/Budget Activity</b> 3620F: <i>Research, Development, Test &amp; Evaluation, Space Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1203330SF / <i>Space Superiority ISR</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	-	16.810	18.109	29.128	0.000	29.128	28.601	28.616	24.464	21.879	Continuing	Continuing
67A051: <i>Space Superiority - Advanced Intelligence Systems</i>	-	16.810	18.109	29.128	0.000	29.128	28.601	28.616	24.464	21.879	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 and Electronic Support (ES) for key find, fix, track, target, engage, and assess (F2T2EA) requirements supporting Space Superiority activities meeting Combatant Command (CCMD) needs. 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>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Previous President's Budget	16.810	18.109	0.000	0.000	0.000
Current President's Budget	16.810	18.109	29.128	0.000	29.128
Total Adjustments	0.000	0.000	29.128	0.000	29.128
• 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	29.128	0.000	29.128

**Change Summary Explanation**

The FY 2022 President's Budget submittal did not reflect FY 2023 through FY 2026 funding. Therefore, an explanation of the change between the two budget positions for FY 2023 cannot be made in a relevant manner.

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Title:</b> Advanced Intelligence Systems for Space Superiority	16.810	18.109	29.128	0.000	29.128
<b>Description:</b> Develops transportable and fixed PCPAD capabilities.					
<b>FY 2022 Plans:</b> Continues Space Superiority RDT&E through transformation of collection and production activities by developing and fielding fixed and transportable intelligence architectures capable of front-end collection and analysis of new technologies in near realtime. This capability will be expanded across the Special Missions Enterprise (SME) to allow access to sensitive information from each point of presence providing production analysts the ability to rapidly exploit known vulnerabilities and develop new capabilities to counter adversary technological advances. ISR capabilities will be further developed and fielded to replace legacy systems, enhance automation, and respond more quickly to ISR for Space needs. Implements system resiliency and situational awareness necessary to operate in the contested space domain. Activities may include, but are not limited to, program office support, studies, technical analysis, prototyping, etc.					
<b>FY 2023 Base Plans:</b> Continues Space Superiority RDT&E through transformation of antiquated collection and production capabilities within the Special Mission Enterprise (SME). Begins mission management enhancements. Provides multiple					

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<p>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 SME. Funds enhancements to analytic exploitation, vulnerability and susceptibility tools. In addition to replacing legacy systems, enhancing automation, and enabling the SME to more quickly respond to ISR for Space needs, FY 2023 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.</p> <p><b>FY 2023 OCO Plans:</b> N/A</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> The \$11.019M increase in FY 2023 funding over FY 2022 includes multiple on-going upgrades to the Space ISR enterprise; replaces decades old legacy capabilities; and stands up a new ISR squadron to provide dedicated, deployable support to meet Space Warfighting CONOPS mission requirements. Equips multiple Continental United States (CONUS)-based deployable TISROCs/DISCs to meet USSF Service-retained and CCMD ISR requirements. ISR Cell will develop and field a Data Management System to archive mission data, an exploitation tool suite, and a cross-domain data dissemination to CCMDs, IC, and National Agencies.</p>					
<b>Accomplishments/Planned Programs Subtotals</b>	16.810	18.109	29.128	0.000	29.128

**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 efforts. Prime contractor is Alion Science & Technology.

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<b>Appropriation/Budget Activity</b>	<b>R-1 Program Element (Number/Name)</b>
3620F: <i>Research, Development, Test &amp; Evaluation, Space Force I BA 7: Operational Systems Development</i>	PE 1203330SF / <i>Space Superiority ISR</i>

Architecture upgrades to SDA, SSDP, and Space Superiority: Multiple Delivery, CPFF integration contract. Prime contractor is BITSYSTEMS Data Analysis.

Data Analysis, Production Development, Test Support for R&D: Multiple Delivery, CPFF production contract supporting vulnerabilities analysis. 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 TBD in FY23.

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2023 Air Force</b>												<b>Date: April 2022</b>			
<b>Appropriation/Budget Activity</b> 3620F / 7						<b>R-1 Program Element (Number/Name)</b> PE 1203330SF / <i>Space Superiority ISR</i>				<b>Project (Number/Name)</b> 67A051 / <i>Space Superiority - Advanced Intelligence Systems</i>					
<b>Product Development (\$ in Millions)</b>				<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 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>
Space Superiority and R&D Intelligence Development	C/CPFF	Various: TBD : TBD	-	1.817	Apr 2021	1.856	Nov 2021	1.500	Nov 2022	-		1.500	Continuing	Continuing	-
Architecture Upgrades to SDA, SSDP, and Space Superiority	C/CPFF	Various: TBD : TBD	-	9.586	Jun 2021	10.736	Jun 2022	18.359	Dec 2022	-		18.359	Continuing	Continuing	-
Data Analysis, Product Development & Test Support for R&D	C/CPFF	Various: TBD : TBD	-	5.193	Nov 2021	5.298	Nov 2021	4.601	Nov 2022	-		4.601	Continuing	Continuing	-
ISR Cell for Data Management Archiving, Exploitation and Dissemination	C/CPAF	Various: TBD : TBD	-	-		-		4.444	Jan 2023	-		4.444	Continuing	Continuing	-
<b>Subtotal</b>			-	16.596		17.890		28.904		-		28.904	Continuing	Continuing	N/A
<b>Support (\$ in Millions)</b>				<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 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>
Mission Support	C/Various	TBD : TBD	-	0.214	Oct 2020	0.219	Oct 2021	0.224	Oct 2022	-		0.224	Continuing	Continuing	-
<b>Subtotal</b>			-	0.214		0.219		0.224		-		0.224	Continuing	Continuing	N/A
<b>Project Cost Totals</b>			-	16.810		18.109		29.128		-		29.128	Continuing	Continuing	N/A
<b>Remarks</b>															

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2023 Air Force		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 3620F / 7	<b>R-1 Program Element (Number/Name)</b> PE 1203330SF / <i>Space Superiority ISR</i>	<b>Project (Number/Name)</b> 67A051 / <i>Space Superiority - Advanced Intelligence Systems</i>

FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
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>Space Superiority ISR</b>	
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	

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Air Force		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 3620F / 7	<b>R-1 Program Element (Number/Name)</b> PE 1203330SF / <i>Space Superiority ISR</i>	<b>Project (Number/Name)</b> 67A051 / <i>Space Superiority - Advanced Intelligence Systems</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Space Superiority ISR</i></b>				
Space Superiority and R&D Intelligence Development	1	2021	4	2027
Architecture Upgrades to SDA, SSDP, and Space Superiority	1	2021	4	2027
Data Analysis, Production Development and Test Support for R&D	1	2021	4	2027
ISR Cell for Data Management Archiving, Exploitation and Dissemination	2	2023	4	2027