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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 1203400F / <i>Space Superiority Intelligence</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	-	14.428	0.000	0.000	0.000	0.000	-	-	-	-	-	-
67A051: <i>Space Superiority - Advanced Intelligence Systems</i>	-	14.428	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

Note
 In FY 2021, PE 1203400F, Space Superiority Intelligence efforts were transferred to Appropriation 3620, Research, Development, Test & Evaluation, Space Force. PE 1203330SF, Space Superiority ISR, Budget Activity 7, due to the creation of a new Appropriation for Space Force.

A. Mission Description and Budget Item Justification

The Space Superiority Intelligence program provides Intelligence, Surveillance, and Reconnaissance (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. SSI provides funds for 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 Space Security and Defense Programs (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 and 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 Intelligence 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 Intelligence support on the front end of space acquisition, allowing maximized innovation and resiliency in support of changing program/project priorities to rapidly 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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	14.428	16.810	18.343	0.000	18.343
Current President's Budget	14.428	0.000	0.000	0.000	0.000
Total Adjustments	0.000	-16.810	-18.343	0.000	-18.343
• 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	-16.810			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	-18.343	0.000	-18.343

Change Summary Explanation

In FY 2021, PE 1203400F, Space Superiority Intelligence efforts were transferred to Appropriation 3620, Research, Development, Test & Evaluation, Space Force. PE 1203330SF, Space Superiority ISR, Budget Activity 7, due to the creation of a new Appropriation for Space Force.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: Advanced Intelligence Systems for Space Superiority	14.428	0.000	0.000	0.000	0.000
Description: Develops transportable and fixed PCPAD capabilities.					
FY 2021 Plans: N/A					
FY 2022 Base Plans: N/A					
FY 2022 OCO Plans: N/A					
FY 2021 to FY 2022 Increase/Decrease Statement: N/A					
Accomplishments/Planned Programs Subtotals	14.428	0.000	0.000	0.000	0.000

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

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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, CPFF, advisory and assistance contractor supporting development efforts. Prime contractor is Macaulay-Brown.

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

Production development for R&D: Multiple Delivery, CPFF production contract supporting vulnerabilities analysis. Prime Contractor is Booz-Allen Hamilton Intelligence systems

Testing and data collection: Multiple Delivery, CPFF production contract providing independent validation and verification of new capability development. Prime contractor is Booz-Allen Hamilton.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Air Force **Date:** May 2021

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 1203400F / <i>Space Superiority Intelligence</i>	Project (Number/Name) 67A051 / <i>Space Superiority - Advanced Intelligence Systems</i>
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Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	-	0.446	Apr 2020	0.000	Nov 2020	0.000	Nov 2021	-		0.000	-	-	-
Architecture upgrades to SDA, SSDP, and Space Superiority	C/CPFF	Various : TBD	-	9.260	Jan 2020	0.000	Dec 2020	0.000	Dec 2021	-		0.000	-	-	-
Data analysis and product development for R&D	C/CPFF	Various : TBD	-	2.838	Nov 2019	0.000	Nov 2020	0.000	Nov 2021	-		0.000	-	-	-
Intelligence systems testing and data collection	C/CPFF	Various : TBD	-	1.491	Feb 2020	0.000	Feb 2021	0.000	Feb 2022	-		0.000	-	-	-
Subtotal			-	14.035		0.000		0.000		-		0.000	-	-	N/A

Management Services (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
A&AS	C/CPFF	Various : TBD	-	0.300	Apr 2020	0.000	Nov 2020	0.000	Nov 2021	-		0.000	-	-	-
Mission Support	Various	Not specified. : TBD	-	0.093		0.000	Oct 2020	0.000	Oct 2021	-		0.000	-	-	-
Subtotal			-	0.393		0.000		0.000		-		0.000	-	-	N/A

			Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	14.428	0.000	0.000	-	0.000	-	-	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Air Force		Date: May 2021
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FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
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 Intelligence</i>	
Architecture upgrade for SDA, SSDP, and Space Superiority	
Data analysis and product development for R&D intelligence	
Deployment for testing and data collection	

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Air Force		Date: May 2021
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Space Superiority Intelligence</i>				
Architecture upgrade for SDA, SSDP, and Space Superiority	1	2020	4	2026
Data analysis and product development for R&D intelligence	1	2020	4	2026
Deployment for testing and data collection	1	2020	4	2026