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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force										Date: May 2017		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 1203400F I Space Superiority Intelligence							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	-	13.965	13.880	12.691	0.000	12.691	12.900	13.140	13.368	13.642	Continuing	Continuing
67A051: Space Superiority - Advanced Intelligence Systems	-	13.965	13.880	12.691	0.000	12.691	12.900	13.140	13.368	13.642	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY2018, PE 0301400F, Space Superiority Intelligence efforts were transferred to PE 1203400F, Space Superiority Intelligence due to the creation of a new Major Force Program for Space. FY2016 and FY2017 funding is now documented in the exhibits for PE 1203400F.

A. Mission Description and Budget Item Justification

Provides Electronic Support (ES) for key find, fix, track, target, engage and assess (F2T2EA) requirements supporting Space Superiority activities. Funds developmental intelligence collection to support new capability acquisition and development. This project also funds transportable intelligence collection and analysis capabilities that are modular (plug-and-play), and can keep pace with technological advances and emerging threats. It provides intelligence support systems for Space Situational Awareness activities that provide the requisite current and predictive knowledge of space events and threat conditions and intelligence support to Space Protection Programs by providing architectural survivability analysis of critical mission assets for mission assurance. It also supports phased threat system analysis and studies (A&S), test support, lab equipment, and Material Acquisition and Exploitation (MAE) for system development and 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.

This program is in Budget Activity 7, Operational System Development, because it includes development efforts to upgrade systems that have been fielded.

B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	12.315	13.880	14.100	0.000	14.100
Current President's Budget	13.965	13.880	12.691	0.000	12.691
Total Adjustments	1.650	0.000	-1.409	0.000	-1.409
• 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	1.650	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	-1.409	0.000	-1.409

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<u>Change Summary Explanation</u> FY 2016: \$1.650M increase to support the development of the Missile Defeat Enterprise, conducted by the National Air and Space Intelligence Center. FY 2018: -\$1.409M for higher Air Force priorities				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018
Title: Advanced Intelligence Systems for Space Superiority Description: Develops transportable and fixed collection and analysis capability. FY 2016 Accomplishments: Supported Space Superiority RDT&E activities by developing, integrating, and fielding enhanced Space Control, Space Situational Awareness, and Space Protection Program capabilities. Integrated new technologies into transportable and fixed collection capabilities to improve data analysis, product development, deployment and testing activity support. FY 2017 Plans: Will continue to support Space Superiority RDT&E activities to include developing new platforms and modernizing fixed site infrastructure to support mission expansion. Will develop new methods to rapidly deliver actionable intelligence to support mission expansion and new capability development within the space control arena. Will expand fixed collection and analysis capabilities to correct identified space superiority intelligence shortfalls. FY 2018 Plans: Will begin Space Superiority RDT&E through transformation of collection and production activities by developing an intelligence architecture capable of front-end collection and analysis of new technologies in near real-time. This capability will be expanded across the Special Missions Enterprise 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.		12.315	13.880	12.691
Title: Missile Defeat Intelligence Description: Congressional Special Interest Item to support the development of the Missile Defeat Enterprise, conducted by the National Air and Space Intelligence Center FY 2016 Accomplishments: Funded development of Missile Defeat Enterprise to improve national response to specific threats through integration of Department of Defense and Intelligence Community efforts. FY 2017 Plans:		1.650	0.000	0.000

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C. Accomplishments/Planned Programs (\$ in Millions)										FY 2016	FY 2017	FY 2018
NA												
FY 2018 Plans: NA												
Accomplishments/Planned Programs Subtotals										13.965	13.880	12.691
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost	
• None: None	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
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 SSA, SPP, 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.												
F. Performance Metrics Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.												

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Air Force												Date: May 2017			
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>			
Product Development (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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	Various	Various : TBD	-	2.705	Nov 2015	3.250	Nov 2016	2.750		0.000		2.750	Continuing	Continuing	-
Architecture upgrades to SSA, SPP, and Space Superiority	Various	Various : TBD	-	4.302	Nov 2015	5.061	Nov 2016	4.550		0.000		4.550	Continuing	Continuing	-
Data analysis and product development for R&D	Various	Various : TBD	-	4.050	Nov 2015	4.150	Nov 2016	4.100		0.000		4.100	Continuing	Continuing	-
Intelligence systems testing and data collection	Various	Various : TBD	-	0.460	Nov 2015	0.600	Nov 2016	0.500		0.000		0.500	Continuing	Continuing	-
Missile Defeat Enterprise Development	Various	Various : TBD	-	1.650		0.000		0.000		0.000		0.000	Continuing	Continuing	-
Subtotal			-	13.167		13.061		11.900		0.000		11.900	-	-	-
Support (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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
Subtotal			-	-		-		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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
Subtotal			-	-		-		-		-		-	-	-	-
Management Services (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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
A&AS	Various	Various : TBD	-	0.798		0.819		0.791		0.000		0.791	Continuing	Continuing	-

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Management Services (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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
Subtotal			-	0.798		0.819		0.791		0.000		0.791	-	-	-

	Prior Years	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	13.965		13.880		12.691		0.000		12.691	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 Air Force			Date: May 2017		
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>

	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022			
	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
Architecture upgrade for SSA, SPP, 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: FY 2018 Air Force			Date: May 2017
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>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Architecture upgrade for SSA, SPP, and Space Superiority	1	2016	4	2022
Data analysis and product development for R&D intelligence	1	2016	4	2022
Deployment for testing and data collection	1	2016	4	2022