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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2017 Air Force **Date:** February 2016

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0301400F / <i>Space Superiority Intelligence</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	10.697	12.315	13.880	0.000	13.880	14.100	14.344	14.583	14.841	Continuing	Continuing
67A051: <i>Space Superiority - Advanced Intelligence Systems</i>	-	10.697	12.315	13.880	0.000	13.880	14.100	14.344	14.583	14.841	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**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)**

	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>
Previous President's Budget	10.697	13.815	14.019	0.000	14.019
Current President's Budget	10.697	12.315	13.880	0.000	13.880
Total Adjustments	0.000	-1.500	-0.139	0.000	-0.139
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-1.500			
• 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	-0.139	0.000	-0.139

**Change Summary Explanation**

\$1.5M congressionally directed reduction to FY16 for insufficient justification.

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<p><b>Title:</b> Advanced Intelligence Systems for Space Superiority</p> <p><b>Description:</b> Develops transportable and fixed collection and analysis capability.</p> <p><b>FY 2015 Accomplishments:</b>                      Fielded six mobile electronic support systems designed to satisfy baseline intelligence and electronic support requirements; Produced 200+ analytical products to aid R&amp;D developmental efforts. Enhanced mobile and fixed collection and analysis capabilities by testing and delivering a near real-time data transfer capability; eliminated lag times allowing production centers to conduct reporting and analysis on High Value Targets in real-time in support of COCOM requirements. Supported three exercises and two developmental test events allowing enhancements to the intelligence architectural designs and improvements to Electronic Support TTPs.</p> <p><b>FY 2016 Plans:</b>                      Will support Space Superiority RDT&amp;E activities by developing, integrating, and fielding enhanced Space Control, Space Situational Awareness, and Space Protection Program capabilities. Will integrate new technologies into transportable and fixed collection capabilities to improve data analysis, product development, deployment and testing activity support.</p> <p><b>FY 2017 Plans:</b>                      Will continue to support Space Superiority RDT&amp;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.</p>	10.697	12.315	13.880
<b>Accomplishments/Planned Programs Subtotals</b>	10.697	12.315	13.880

<b>D. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2017</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• 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.

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<p>Architecture upgrades to SSA, SPP, and Space Superiority: Multiple Delivery, CPFF integration contract. Prime contractor is BITSYSTEMS Data Analysis</p> <p>Production development for R&amp;D: Multiple Delivery, CPFF production contract supporting vulnerabilities analysis. Prime Contractor is Booz-Allen Hamilton Intelligence systems</p> <p>Testing and data collection: Multiple Delivery, CPFF production contract providing independent validation and verification of new capability development. Prime contractor is Booz-Allen Hamilton.</p> <p>All activities are contracted by ACC, AMIC, Det 2/ZQ-PK and are managed by 25AF/ZQ.</p> <p><b>F. Performance Metrics</b></p> <p>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.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force												Date: February 2016			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
3600 / 7				PE 0301400F / Space Superiority Intelligence				67A051 / Space Superiority - Advanced Intelligence Systems							
<b>Product Development (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	-	2.457	Nov 2014	2.705	Nov 2015	3.250	Nov 2016	0.000		3.250	Continuing	Continuing	TBD
Architecture upgrades to SSA, SPP, and Space Superiority	Various	Various : TBD	-	3.602	Oct 2014	4.302	Nov 2015	5.061	Nov 2016	0.000		5.061	Continuing	Continuing	TBD
Data analysis and product development for R&D	Various	Various : TBD	-	3.676	Oct 2014	4.050	Nov 2015	4.150	Nov 2016	0.000		4.150	Continuing	Continuing	TBD
Intelligence systems testing and data collection	Various	Various : TBD	-	0.460	Nov 2014	0.460	Nov 2015	0.600	Nov 2016	0.000		0.600	Continuing	Continuing	TBD
<b>Subtotal</b>			-	10.195		11.517		13.061		0.000		13.061	-	-	-
<b>Support (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
<b>Subtotal</b>			-	-		-		-		-		-	-	-	-
<b>Test and Evaluation (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
<b>Subtotal</b>			-	-		-		-		-		-	-	-	-
<b>Management Services (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Program Management Administration (PMA)	Various	Various : TBD	-	0.502	Oct 2015	0.798		0.819	Oct 2015	0.000		0.819	Continuing	Continuing	TBD
<b>Subtotal</b>			-	0.502		0.798		0.819		0.000		0.819	-	-	-



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2017 Air Force</b>		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0301400F / <i>Space Superiority Intelligence</i>	<b>Project (Number/Name)</b> 67A051 / <i>Space Superiority - Advanced Intelligence Systems</i>

	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	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	[Redacted]																											
Data analysis and product development for R&D intelligence	[Redacted]																											
Deployment for testing and data collection	[Redacted]																											

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0301400F / <i>Space Superiority Intelligence</i>	<b>Project (Number/Name)</b> 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	2015	4	2021
Data analysis and product development for R&D intelligence	1	2015	4	2021
Deployment for testing and data collection	1	2015	4	2021

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