Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force											Date: February 2015	
Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force* / BA 6: *RDT&E Management Support*					R-1 Program Element (Number/Name) PE 0606116F / *Space Test and Training Range Development*							
COST ($ in Millions)	**Prior Years**	**FY 2014**	**FY 2015**	**FY 2016 Base**	**FY 2016 OCO**	**FY 2016 Total**	**FY 2017**	**FY 2018**	**FY 2019**	**FY 2020**	**Cost To Complete**	**Total Cost**
Total Program Element	-	-	19.512	18.997	-	18.997	19.167	19.504	19.912	20.264	Continuing	Continuing
666156: *SPACE TEST AND TRAINING RANGE DEVELOPMENT*	-	-	19.512	18.997	-	18.997	19.167	19.504	19.912	20.264	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY2015, PE 0606116F, Space Test and Training Range Development, Project 666156 Space Test and Training Range Development efforts were transferred from PE 0603438F, Space Control Technology, Project 64A007, Space Range in order to provide transparency in acquisition funding.

A. Mission Description and Budget Item Justification

This project supports the development of Space Test and Training Range (STTR) capabilities required to support developmental and operational test, training, exercises and tactics development for Space Control systems and related architecture. This includes development, demonstration and delivery of test assets, special test equipment, capabilities and systems required to test, validate, and verify performance of integrated space control systems. The objective of the STTR is to provide a safe, secure, controllable and repeatable environment for the testing and training of Space Control mission systems and operators that is both realistic and relevant. Additionally, this program supports the development of test range assets required to support developmental and operational test, exercises, training, and tactics development for Air Force and Joint-service space control systems/units. Included are both the fixed node Space Range Operation Center (SROC) at Schriever AFB and a deployable capability to support complex Joint and AF exercises. A space range Family of Systems (FoS) called Big Top is being developed to accomplish the STTR mission. The Big Top objective is integration into a Distributed Mission Architecture, tying into both the Information Operations (IO) and Air ranges for increased realism and complexity. This technology will allow for the first-ever use of a realistic signal environment to increase the realism and efficiency of space control squadron training.

This program is in Budget Activity 6, RDT&E Management Support, because this budget activity includes research, development, test and evaluation efforts and funds to sustain and/or modernize the installations or operations required for general research, development, test and evaluation.

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B. Program Change Summary ($ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	-	19.512	19.873	-	19.873
Current President's Budget	-	19.512	18.997	-	18.997
Total Adjustments	-	-	-0.876	-	-0.876
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	-0.876	-	-0.876

C. Accomplishments/Planned Programs ($ in Millions)	FY 2014	FY 2015	FY 2016
Title: Range Control	-	19.012	17.618
Description: Development and acquisition of mobile, transportable, and fixed range monitoring and communications capabilities for the space range. ***FY 2014 Accomplishments:*** N/A ***FY 2015 Plans:*** Complete SROC technical refresh activities for Spiral 0. Continue development and complete initial deliveries of advanced live, virtual and constructive environment and closed loop training capabilities and advanced software simulation tools. ***FY 2016 Plans:*** SROC technical activities for Spiral 1. Continue development and deliveries of advanced live, virtual and constructive environment and closed loop training and advanced software simulation tools.			
Title: Bandwidth Support	-	0.500	1.379
Description: Provides for leased SATCOM bandwidth for STTR operations. ***FY 2014 Accomplishments:*** N/A ***FY 2015 Plans:***			

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C. Accomplishments/Planned Programs ($ in Millions)	FY 2014	FY 2015	FY 2016
Provide reqired space range satellite communications bandwidth for exercise, testing and training of both offensive and defensive space control systems on the space range. ***FY 2016 Plans:*** Provide required space range satellite communications bandwidth for exercise, testing and training of both offensive and defensive space control systems on the space range. FY16 additional satellite communications bandwidth will be added.			
Accomplishments/Planned Programs Subtotals	-	19.512	18.997

D. Other Program Funding Summary ($ in Millions)

Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• RDTE: BA04: PE 0603438F: *Space Control Technology*	17.328	-	-	-	-	-	-	-	-	-	-

Remarks

E. Acquisition Strategy

All contracts funded in this program element will be awarded using competitive procedures to the maximum extent possible.

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.