Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force Date: February 2019

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 7:

PE 1203174F I Space Innovation, Integration and Rapid Technology Development

Operational Systems Development

1 - 1	-											
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	-	9.081	21.019	43.292	0.000	43.292	44.761	24.643	24.859	67.149	Continuing	Continuing
67A011: Space Analysis and Application Development	-	9.081	21.019	43.292	0.000	43.292	44.761	24.643	24.859	67.149	Continuing	Continuing
Quantity of RDT&E Articles	_	-	-	-	-	-	-	-	-	-		

### A. Mission Description and Budget Item Justification

Located at Peterson AFB, Colorado, the Space Innovation, Integration and Rapid Technology Development (SIIRTD) program develops and modifies modeling and simulation tools that Air Force Space Command's Space Analysis Center uses for operations research, military utility analyses, tradeoff studies, and other evaluations of space mission areas to guide planning, programming, requirements generation, analyses of alternatives, and other activities. Development activities incorporate changes in fielded and projected space operational capabilities, as well as technical improvements, into the group's software tools to ensure their data and technology remain current. Space Training Simulators develop and upgrades space training emulators using Standard Space Trainer (SST) to meet Space Mission Force (SMF) threat-based, advanced training requirements as well as funds connection to Distributed Mission Operations (DMO)training networks. Finally, its innovation, education, and training activities foster solutions to operational deficiencies and enhance the integration of space systems into Air Force operations, thereby enabling service and joint warfighters to realize the full potential of existing and planned space capabilities.

Space acquisition must respond with speed and agility to emerging adversary threats. Space & Missile Systems Center (SMC) is transforming the organization and implementation of space acquisition to an enterprise approach, maximizing innovation and resiliency, leveraging international, commercial, and mission partnerships, and managing program/project priorities according to an integrated unclassified/classified enterprise space architecture. Expanding the appropriate acquisition authorities and contract mechanisms to deliver capability sooner, SMC will strategically execute experimentation, prototyping, risk reduction, and other efforts to develop new or repurpose capabilities.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver SIIRTD weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 1206392F and 1206398F.

The FY2020 funding request was reduced by \$0.928M to account for the availability of prior year execution balances.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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.

PE 1203174F: Space Innovation, Integration and Rapid ... Air Force

Page 1 of 9

Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force

R-1 Program Element (Number/Name)

**Appropriation/Budget Activity** 3600: *Research, Development, Test & Evaluation, Air Force I* BA 7:

PE 1203174F I Space Innovation, Integration and Rapid Technology Development

Date: February 2019

Operational Systems Development

B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	11.390	21.019	24.220	0.000	24.220
Current President's Budget	9.081	21.019	43.292	0.000	43.292
Total Adjustments	-2.309	0.000	19.072	0.000	19.072
<ul> <li>Congressional General Reductions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Directed Reductions</li> </ul>	-2.000	0.000			
<ul> <li>Congressional Rescissions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Adds</li> </ul>	0.000	0.000			
<ul> <li>Congressional Directed Transfers</li> </ul>	0.000	0.000			
<ul> <li>Reprogrammings</li> </ul>	0.000	0.000			
SBIR/STTR Transfer	-0.309	0.000			
Other Adjustments	0.000	0.000	19.072	0.000	19.072

## **Change Summary Explanation**

FY 2018: -\$2.000M Congressional reduction - unjustified request

FY 2020: +\$20.000M increase to accelerate development of standardized space trainers; -\$0.928M reduction for execution rephase

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
Title: Model/Tool Development and Capability Upgrades	4.201	5.326	5.423
<b>Description:</b> Develops, verifies, and validates models for space mission areas and modifies existing models to portray new capabilities that meet the national senior leader intent. Advancing M&S tools to incorporate space effects at the campaign, mission and engagement levels with the goal of enhancing decision support, visualization, exercise and wargaming. Rapidly me downward-directed guidance implementing the system resiliency and situational awareness necessary to win in a contested spadomain. Activities may include, but are not limited to, acquisition, program office support, studies, technical analysis, prototyping etc. The space M&S is used for military utility analyses, trade studies, and other space program evaluations supporting OSD, Jo Staff, Headquarters Air Force, Headquarters Air Force Space Command, and the Space and Missile Center.	ice		
FY 2019 Plans: Revamp existing space models and tools to meet recent presidential, CDRSTRATCOM, and COMAFSPC guidance. Begin developing a space campaign model to assess force structures in a contested environment to better organize USSPACECOM/ Space Force warfighting needs. Continue transforming FY2018 activities. Key models include the Advanced Framework for Simulation, Integration, and Modeling (AFSIM). This is an Air Force process that harnesses disparate domain capabilities into a simulation environment. Threat, Vulnerability, Timeline (TVT) is a tool underpinning key POM decisions, overlaying force structure on the given threat constructs to identify warfighting shortfalls. The Program's mission/campaign modeling suites must be updated.	re		

UNCLASSIFIED Page 2 of 9

PE 1203174F: Space Innovation, Integration and Rapid ... Air Force

	UNCLASSIFIED			
Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force		Date: F	ebruary 2019	
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1203174F / Space Innovation, Integration and R	apid Technol	ogy Developr	ment
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019	FY 2020
to produce technically sound and responsive space analyses for warfighter tools assess how well we meet national and military needs identified by the Joint Space Warfighter Forum (JSWF). The Space Surveillance Network A supporting the JFSCC's operation centers' situational awareness. As a major to accurately represent space.	e Enterprise Space Architecture Office (ESAO) and nalysis Model (SSNAM) is a key warfighting tool			
Continue to produce technically sound and responsive space/cyberspace a environment in support of national and military needs and other model mod and future analysis of alternatives.				
FY 2020 Plans: Continue to modernize space models and tools to meet recent presidential developing a space campaign model to assess force structures in a contest Space Force warfighting needs. Continue transforming FY 2019 activities. Simulation, Integration, and Modeling (AFSIM). This is an Air Force procest simulation environment. Threat, Vulnerability, Timeline (TVT) is a tool under on the given threat constructs to identify warfighting shortfalls. The Program to produce technically sound and responsive space analyses for warfighter tools assess how well we meet national and military needs identified by the Joint Space Warfighter Forum (JSWF). The Space Surveillance Network A supporting the JFSCC's operation centers' situational awareness. As a maje to accurately represent space.	kted environment to better organize USSPACECOM/ Key models include the Advanced Framework for s that harnesses disparate domain capabilities into a erpinning key POM decisions, overlaying force structure m's mission/campaign modeling suites must be updated operations in a highly-contested environment. These exercise Enterprise Space Architecture Office (ESAO) and nalysis Model (SSNAM) is a key warfighting tool			
Continue to produce technically sound and responsive space/cyberspace a environment in support of national and military needs. Produce other mode questions and future analysis of alternatives.				
FY 2019 to FY 2020 Increase/Decrease Statement: FY2019 to FY2020 \$0.097 increase due to inflation				
Title: Model Verification		1.752	2.330	2.373
Description: Verification of changes made to models.				
FY 2019 Plans:				

PE 1203174F: Space Innovation, Integration and Rapid ... Air Force

UNCLASSIFIED Page 3 of 9

Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force		Date: F	ebruary 2019	
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1203174F / Space Innovation, Integration and F	Rapid Technol	ogy Developi	ment
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019	FY 2020
Continue verification of model changes resulting from model development a upgrades of system modeling tools.	nd modification efforts. Development and capability			
FY 2020 Plans: Continue to modernize space models and tools to meet recent presidential, developing a space campaign model to assess force structures in a contested Space Force warfighting needs. Continue transforming FY 2019 activities. K Simulation, Integration, and Modeling (AFSIM). This is an Air Force process simulation environment. Threat, Vulnerability, Timeline (TVT) is a tool under on the given threat constructs to identify warfighting shortfalls. The Program updated to produce technically sound tools assess and responsive space are environment. These tools assess how well we meet national and military ne Office (ESAO) and Joint Space Warfighter Forum (JSWF). The Space Survey warfighting tool supporting the JFSCC's operation centers' situational aware establish the tool to accurately represent space.  Continue to produce technically sound and responsive space/cyberspace are environment in support of national and military needs. Produce other model questions and future analysis of alternatives.  FY 2019 to FY 2020 Increase/Decrease Statement:	ded environment to better organize USSPACECOM/ dey models include the Advanced Framework for that harnesses disparate domain capabilities into a pinning key POM decisions, overlaying force structure 's mission/campaign modeling suites must be halyses for warfighter operations in a highly-contested eds identified by the Enterprise Space Architecture eillance Network Analysis Model (SSNAM) is a key eness. As a major warfighting domain, it is critical we halyses analyzing warfighter ops in a highly-contested			
FY2019 to FY2020 \$0.43M increase due to inflation				
Title: Model Validation		2.813	3.439	3.502
<b>Description:</b> Validated model change results.				
FY 2019 Plans: Continue validation of model changes resulting from model development an FY 2020 Plans: Continue to modernize space models and tools to meet recent presidential, developing a space campaign model to assess force structures in a contest Space Force warfighting needs. Continue transforming FY 2019 activities. K Simulation, Integration, and Modeling (AFSIM). This is an Air Force process simulation environment. Threat, Vulnerability, Timeline (TVT) is a tool under	CDRSTRATCOM, and COMAFSPC guidance. Begin ed environment to better organize USSPACECOM/ (Ley models include the Advanced Framework for that harnesses disparate domain capabilities into a			

PE 1203174F: Space Innovation, Integration and Rapid ... Air Force

UNCLASSIFIED Page 4 of 9

to produce technically sound and responsive space analyses for warfighter operations in a highly-contested environment. These tools assess how well we meet national and military needs identified by the Enterprise Space Architecture Office (ESAO) and Joint Space Warfighter Forum (JSWF). The Space Surveillance Network Analysis Model (SSNAM) is a key warfighting tool supporting the JFSCC's operation centers' situational awareness. As a major warfighting domain, it is critical we establish the tool to accurately represent space.  Continue to produce technically sound and responsive space/cyberspace analyses analyzing warfighter ops in a highly-contested environment in support of national and military needs. Produce other model modifications as needed based on leadership questions and future analysis of alternatives.  FY 2019 to FY 2020 Increase/Decrease Statement: FY 2019 to FY 2020 Increase/Decrease Statement: FY 2019 to FY 2020 Sp.63M increase due to inflation  Title: Space Training Simulators  Description: Develop/upgrade Standard Space Trainer (SST) simulators to meet Space Mission Force (SMF) threat-based, advanced training requirements as well as builds connectivity to Distributed Mission Operations (DMO) training networks. Follows direction set out in USAF Operational Training Infrastructure (OTI) Flight Plan, as well as meets United States Strategic Command's Integrated Priority List (IPL)priority.  FY 2019 Plans: Distributed Mission Operations - Space (DMO-S) modeling and simulation development and develop the Geostationary Space Situational Awareness (GSAAP) Standard Space Trainer (SST). GSSAP SST will include DMO connectivity, Enterprise Ground Service (EGS) compatibility, and Blue/White/Red operator-in-the-loop modeling and simulation consoles (i.e., GSSAP space operator consoles, instructor/evaluator consoles, and opposing force consoles). Also begins development of Space-Based Infrared System (SBIRS), Upgraded Early Warning Radar (UEWR) SSTS and planned delivery of Global Positioning System (GPS) SST.	ebruary 2019	2019
to produce technically sound and responsive space analyses for warfighter operations in a highly-contested environment. These tools assess how well we meet national and military needs identified by the Enterprise Space Architecture Office (ESAO) and Joint Space Warfighter Forum (JSWF). The Space Surveillance Network Analysis Model (SSNAM) is a key warfighting tool supporting the JFSCC's operation centers' situational awareness. As a major warfighting domain, it is critical we establish the tool to accurately represent space.  Continue to produce technically sound and responsive space/cyberspace analyses analyzing warfighter ops in a highly-contested environment in support of national and military needs. Produce other model modifications as needed based on leadership questions and future analysis of alternatives.  FY 2019 to FY 2020 Increase/Decrease Statement: FY 2019 to FY 2020 Increase/Decrease Statement: FY 2019 to FY 2020 So.63M increase due to inflation  Title: Space Training Simulators  Description: Develop/upgrade Standard Space Trainer (SST) simulators to meet Space Mission Force (SMF) threat-based, advanced training requirements as well as builds connectivity to Distributed Mission Operations (DMO) training networks. Follows direction set out in USAF Operational Training Infrastructure (OTI) Flight Plan, as well as meets United States Strategic Command's Integrated Priority List (IPL)priority.  FY 2019 Plans: Distributed Mission Operations - Space (DMO-S) modeling and simulation development and develop the Geostationary Space Situational Awareness (GSAAP) Standard Space Trainer (SST). GSSAP SST will include DMO connectivity, Enterprise Ground Service (EGS) compatibility, and Blue/White/Red operator-in-the-loop modeling and simulation consoles (i.e., GSSAP space operator consoles, instructor/evaluator consoles, and opposing force consoles). Also begins development of Space-Based Infrared System (SBIRS), Upgraded Early Warning Radar (UEWR) SSTS and planned delivery of Global Positioning System (GPS) SST.	ogy Developme	/elopment
tools assess how well we meet national and military needs identified by the Enterprise Space Architecture Office (ESAO) and Joint Space Warfighter Forum (JSWF). The Space Surveillance Network Analysis Model (SSNAM) is a key warfighting tool supporting the JFSSC's operation centers' situational awareness. As a major warfighting domain, it is critical we establish the tool to accurately represent space.  Continue to produce technically sound and responsive space/cyberspace analyses analyzing warfighter ops in a highly-contested environment in support of national and military needs. Produce other model modifications as needed based on leadership questions and future analysis of alternatives.  FY 2019 to FY 2020 Increase/Decrease Statement: FY 2019 to FY 2020 \$0.63M increase due to inflation  Title: Space Training Simulators  Description: Develop/upgrade Standard Space Trainer (SST) simulators to meet Space Mission Force (SMF) threat-based, advanced training requirements as well as builds connectivity to Distributed Mission Operations (DMO) training networks. Follows direction set out in USAF Operational Training Infrastructure (OTI) Flight Plan, as well as meets United States Strategic Command's Integrated Priority List (IPL)priority.  FY 2019 Plans: Distributed Mission Operations - Space (DMO-S) modeling and simulation development and develop the Geostationary Space Situational Awareness (GSAAP) Standard Space Trainer (SST). GSSAP SST will include DMO connectivity, Enterprise Ground Service (EGS) compatibility, and Blue/White/Red operator-in-the-loop modeling and simulation consoles (i.e., GSSAP space operator consoles, instructor/evaluator consoles, and opposing force consoles). Also begins development of Space-Based Infrared System (SBIRS), Upgraded Early Warning Radar (UEWR) SSTS and planned delivery of Global Positioning System (GPS) SST.  FY 2020 Plans: Accelerate completion of SSTs for GSSAP and SBIRS (projected completion in early FY 2021); begin SST development for	FY 2019	)19 FY 2020
environment in support of national and military needs. Produce other model modifications as needed based on leadership questions and future analysis of alternatives.  FY 2019 to FY 2020 Increase/Decrease Statement: FY 2019 to FY 2020 \$0.63M increase due to inflation  Tittle: Space Training Simulators  Description: Develop/upgrade Standard Space Trainer (SST) simulators to meet Space Mission Force (SMF) threat-based, advanced training requirements as well as builds connectivity to Distributed Mission Operations (DMO) training networks. Follows direction set out in USAF Operational Training Infrastructure (OTI) Flight Plan, as well as meets United States Strategic Command's Integrated Priority List (IPL)priority.  FY 2019 Plans: Distributed Mission Operations - Space (DMO-S) modeling and simulation development and develop the Geostationary Space Situational Awareness (GSAAP) Standard Space Trainer (SST). GSSAP SST will include DMO connectivity, Enterprise Ground Service (EGS) compatibility, and Blue/White/Red operator-in-the-loop modeling and simulation consoles (i.e., GSSAP space operator consoles, instructor/evaluator consoles, and opposing force consoles). Also begins development of Space-Based Infrared System (SBIRS), Upgraded Early Warning Radar (UEWR) SSTS and planned delivery of Global Positioning System (GPS) SST.  FY 2020 Plans: Accelerate completion of SSTs for GSSAP and SBIRS (projected completion in early FY 2021); begin SST development for		
FY 2019 to FY 2020 \$0.63M increase due to inflation  Title: Space Training Simulators  Description: Develop/upgrade Standard Space Trainer (SST) simulators to meet Space Mission Force (SMF) threat-based, advanced training requirements as well as builds connectivity to Distributed Mission Operations (DMO) training networks. Follows direction set out in USAF Operational Training Infrastructure (OTI) Flight Plan, as well as meets United States Strategic Command's Integrated Priority List (IPL)priority.  FY 2019 Plans: Distributed Mission Operations - Space (DMO-S) modeling and simulation development and develop the Geostationary Space Situational Awareness (GSAAP) Standard Space Trainer (SST). GSSAP SST will include DMO connectivity, Enterprise Ground Service (EGS) compatibility, and Blue/White/Red operator-in-the-loop modeling and simulation consoles (i.e., GSSAP space operator consoles, instructor/evaluator consoles, and opposing force consoles). Also begins development of Space-Based Infrared System (SBIRS), Upgraded Early Warning Radar (UEWR) SSTS and planned delivery of Global Positioning System (GPS) SST.  FY 2020 Plans: Accelerate completion of SSTs for GSSAP and SBIRS (projected completion in early FY 2021); begin SST development for		
Description: Develop/upgrade Standard Space Trainer (SST) simulators to meet Space Mission Force (SMF) threat-based, advanced training requirements as well as builds connectivity to Distributed Mission Operations (DMO) training networks. Follows direction set out in USAF Operational Training Infrastructure (OTI) Flight Plan, as well as meets United States Strategic Command's Integrated Priority List (IPL)priority.  FY 2019 Plans: Distributed Mission Operations - Space (DMO-S) modeling and simulation development and develop the Geostationary Space Situational Awareness (GSAAP) Standard Space Trainer (SST). GSSAP SST will include DMO connectivity, Enterprise Ground Service (EGS) compatibility, and Blue/White/Red operator-in-the-loop modeling and simulation consoles (i.e., GSSAP space operator consoles, instructor/evaluator consoles, and opposing force consoles). Also begins development of Space-Based Infrared System (SBIRS), Upgraded Early Warning Radar (UEWR) SSTS and planned delivery of Global Positioning System (GPS) SST.  FY 2020 Plans: Accelerate completion of SSTs for GSSAP and SBIRS (projected completion in early FY 2021); begin SST development for		
advanced training requirements as well as builds connectivity to Distributed Mission Operations (DMO) training networks. Follows direction set out in USAF Operational Training Infrastructure (OTI) Flight Plan, as well as meets United States Strategic Command's Integrated Priority List (IPL)priority.  FY 2019 Plans: Distributed Mission Operations - Space (DMO-S) modeling and simulation development and develop the Geostationary Space Situational Awareness (GSAAP) Standard Space Trainer (SST). GSSAP SST will include DMO connectivity, Enterprise Ground Service (EGS) compatibility, and Blue/White/Red operator-in-the-loop modeling and simulation consoles (i.e., GSSAP space operator consoles, instructor/evaluator consoles, and opposing force consoles). Also begins development of Space-Based Infrared System (SBIRS), Upgraded Early Warning Radar (UEWR) SSTS and planned delivery of Global Positioning System (GPS) SST.  FY 2020 Plans: Accelerate completion of SSTs for GSSAP and SBIRS (projected completion in early FY 2021); begin SST development for	9.924	31.9
Distributed Mission Operations - Space (DMO-S) modeling and simulation development and develop the Geostationary Space Situational Awareness (GSAAP) Standard Space Trainer (SST). GSSAP SST will include DMO connectivity, Enterprise Ground Service (EGS) compatibility, and Blue/White/Red operator-in-the-loop modeling and simulation consoles (i.e., GSSAP space operator consoles, instructor/evaluator consoles, and opposing force consoles). Also begins development of Space-Based Infrared System (SBIRS), Upgraded Early Warning Radar (UEWR) SSTS and planned delivery of Global Positioning System (GPS) SST.  FY 2020 Plans: Accelerate completion of SSTs for GSSAP and SBIRS (projected completion in early FY 2021); begin SST development for		
Accelerate completion of SSTs for GSSAP and SBIRS (projected completion in early FY 2021); begin SST development for		
additional weapon systems, to include Mistar, Advanced Extremely High Frequency (AEHF), Wideband Global Satellite System (WGS), and Defense Satellite Communication System (DSCS).		
FY 2019 to FY 2020 Increase/Decrease Statement:		

PE 1203174F: Space Innovation, Integration and Rapid ... Air Force

UNCLASSIFIED Page 5 of 9

Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force		Date: February 2019
Appropriation/Budget Activity	B 4 Dreament (Number/Nems)	

Appropriation/Budget Activity R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 7:
Operational Systems Development

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
FY 2019 to FY 2020 \$22.070M increase due to additional SST development. As part of the Space Enterprise Vision and space training shortfalls outlined in the Space Cadre Task Force Report (15 Aug 18).			
Accomplishments/Planned Programs Subtotals	9.081	21.019	43.292

## D. Other Program Funding Summary (\$ in Millions)

			FY 2020	FY 2020	FY 2020					Cost To	
<u>Line Item</u>	FY 2018	FY 2019	<u>Base</u>	OCO	<u>Total</u>	FY 2021	FY 2022	FY 2023	FY 2024	<b>Complete</b>	<b>Total Cost</b>
<ul> <li>SPAF 01 GNRLT: General IT</li> </ul>	1.661	1.564	1.350	-	1.350	1.374	1.398	1.425	1.451	Continuing	Continuing

#### Remarks

Funding and content procures equipment for the SIIRTD AFSPC Virtual Analysis Capability (AVAC) system. Supports space and cyber modeling and analysis using a variety of Linux and Windows based hardware and software suites. Also procures Information Technology (IT) hardware & software infrastructure for the Distributed Communications Architecture for ACC.

### E. Acquisition Strategy

Any new projects funded in this program 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.

PE 1203174F: Space Innovation, Integration and Rapid ... Air Force

Development

Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force

Appropriation/Budget Activity
3600 / 7

R-1 Program Element (Number/Name)
PE 1203174F / Space Innovation,
Integration and Rapid Technology

Date: February 2019

Project (Number/Name)
67A011 / Space Analysis and Application
Development

FY 2020 FY 2020 FY 2020 **Product Development (\$ in Millions) FY 2018** FY 2019 Base oco Total Contract Target Method Performing Prior Award Award Award Award Cost To Total Value of **Cost Category Item** & Type **Activity & Location** Years Date Cost Date Cost Cost Date Complete Cost Contract Cost Date Cost Develop/modify software C/Various Various: Various 0.000 Continuing Continuing tools/models - OCO Develop/modify software SimaTek: Denver, C/CPFF 0.300 Mar 2018 0.303 Mar 2019 0.311 Mar 2020 0.311 Continuing Continuing tools/models CO Develop/modify software Segue Corp: Lake C/CPFF 1.870 Jan 2018 0.000 Continuing Continuing tools and models Forest, CA Develop and modify Segue Corp: Lake C/CPFF 6.596 Jun 2018 10.792 Jun 2019 10.987 Jun 2020 10.987 Continuing Continuing software tools/models Forest, CA Space Training Simulator Sonalysts Inc : San C/CPFF 31.994 Continuing Continuing 0.315 9.924 Dec 2018 31.994 Dec 2019 Development Diego, CA Subtotal 9.081 21.019 43.292 43.292 Continuing Continuing N/A

									Target
	Prior			FY 2020	FY 2020	FY 2020	Cost To	Total	Value of
	Years	FY 2018	FY 2019	Base	oco	Total	Complete	Cost	Contract
Project Cost Totals	-	9.081	21.019	43.292	-	43.292	Continuing	Continuing	N/A

Remarks

PE 1203174F: Space Innovation, Integration and Rapid ... Air Force

UNCLASSIFIED
Page 7 of 9

Exhibit R-4, RDT&E Schedule Profile: PB 2020 A	ir F	orce	•																			Da	te: F	ebru	ary	201	9	
Appropriation/Budget Activity 3600 / 7							F	PE 1 Integ	1203 grati	3174	n Ele F / S and R at	рас	e In	nova	ation	١,	me)		67 <i>A</i>		ÌS	pa	ber/N ce An			nd A	pplic	cation
		FY	201	8		FY	2019			FY 2	2020			FY 2	2021			FY 2	2022	2		FY	202	3		FY	2024	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	1	2	3	4
SIIRTD		`						· ·																				
Model development/modification, verification, and validation																												
Space Training Simulators																												

Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force			Date: February 2019
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
3600 / 7	PE 1203174F I Space Innovation,	67A011 / S	Space Analysis and Application
	Integration and Rapid Technology	Developme	ent
	Development		

# Schedule Details

	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
SIIRTD				
Model development/modification, verification, and validation	1	2018	4	2024
Space Training Simulators	1	2019	4	2024