Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force	Date: March 2024
Appropriation/Budget Activity 3620F: *Research, Development, Test & Evaluation, Space Force* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 1203110SF / *Satellite Control Network (SPACE)*

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	38.289	86.465	98.572	0.000	98.572	97.656	96.834	99.773	101.741	Continuing	Continuing
673276: *Satellite Control Network*	-	38.289	86.465	98.572	0.000	98.572	97.656	96.834	99.773	101.741	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Satellite Control Network (SCN) is a satellite ground terminal network comprised of two communication nodes (Schriever SFB & Vandenberg SFB) and 15 antenna systems. The antennas are distributed around the globe at seven locations -- Vandenberg Tracking Station (VTS), Diego Garcia Station (DGS), Guam Tracking Station (GTS), Hawaii Tracking Station (HTS), New Hampshire Tracking Station (NHS), Thule Tracking Station (TTS) and Telemetry and Commanding Station (TCS) at RAF Oakhanger, England -- to ensure global coverage for over 170 satellites in various orbits operating in a congested and contested environment. The SCN conducts an average of 450+ satellite contacts per day supporting Positioning, Navigation and Timing (PNT), Intelligence, Surveillance and Reconnaissance (ISR), Missile Warning and Missile Defense, Communications, Weather, Launch Vehicle Support, and Research and Development (R&D) for Department of Defense (DoD), Intelligence Community (IC), and National Aeronautics and Space Administration (NASA) operations. While most of the 450+ daily satellite contacts are routine command and control (C2) activities, the SCN is also used during satellite emergencies (e.g. a tumbling satellite) because its high-power antennas are often the only terrestrial assets that can re-establish contact with a non-responsive satellite. During each Fiscal Year, the SCN typically supports multiple space vehicle emergencies, resulting in the preservation of over 4B worth of satellites. In addition to routine and emergency satellite operations C2, the SCN provides support to launch and early orbit operations, ensuring worldwide telemetry during launch vehicle ascent, staging, and orbital insertion, and data transmit and receive for new satellites completing early orbit checkout. During each Fiscal Year, the SCN supports multiple launches delivering an average of 14B worth of satellites to their operational orbits. Finally, the SCN provides Factory Compatibility Testing (FCT) to ensure satellites and launch vehicles can communicate via the SCN before the satellite is launched.

In FY 2025, the SCN Enhancements and Deficiency Resolution sub-effort funding has been redistributed among the specific activities it supports in the Satellite Operations Transmit and Receive, Satellite C2 Augmentation Services, and Cyber-secure Mission Data Transport areas.

The meshONE-T system, like the SCN ground terminal network, provides an enterprise capability for USSF and other customers. meshONE-T nodes, located at USSF and other mission partner military installations (e.g., USSF and USAF bases), remote sensor, operational, and system development locations, utilize diversified long-haul communication circuits to provide high speed, scalable, resilient, cyber-secure transport services for mission data producers and consumers. These services are operated and managed via geographically dispersed Enterprise Service Desk (ESD) / Network Operation Center (NOC) sites. The multi-tenant, mission-agnostic system uses Commercial Off The Shelf (COTS)-based solutions and industry standard protocols to move data traffic quickly, efficiently, and securely across the Internet Protocol (IP)-based network architecture. The meshONE-T pathfinder, comprised of 20 nodes, long-haul communications links, classified cloud services connections, and an ESD/NOC, provides data transport capabilities for Next-Gen and Future Operationally Resilient Ground Evolution (FORGE) Overhead Persistent Infrared (OPIR) and Advanced Battle Management System (ABMS) mission partners. The post-pathfinder meshONE-T effort will proliferate this modern mission data transport service to additional mission partners and locations—anticipated to include all principal USSF sites—in accordance with warfighter priorities. Supplementary CONUS and

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OCONUS NOCs, communication links, bandwidth upgrades, and system improvements increase global operational reach, resiliency, and responsiveness to support warfighter operations through all phases of conflict. Software-defined networking capabilities accelerate onboarding of new mission partners and the delivery of transport services, providing the agility necessary to counter emerging threats. meshONE-T resolves current space mission network shortfalls including antiquated protocols, bandwidth constraints, lack of resiliency, cyber vulnerability, and excessive fielding times. All mission partners using meshONE-T will become part of the USSF ground network enterprise, with access to every node and network-provided cyber-secure services.

These funds are utilized to meet evolving future space demands for Data Transmit Receive Network (DTRN), to include transmit, receive and data transport to ensure capabilities are available to support DoD, IC, and civil users. This includes efforts to provide more capable ground-based antennas, augment the existing SCN with Federal and commercial antennas to both diversify space-ground link resources and increase capacity for spacecraft communication, modernize satellite scheduling, and develop infrastructure network solutions for long-haul terrestrial communications compatible with Air Force and Space Force missions. Other activities include identifying shared/common platform, infrastructure and data layer solutions to support open frameworks and architectures across the enterprise ground portfolio. Funds are also used for requirements management, system planning, enterprise analysis and architecture support, Systems Engineering and Integration (SE&I), cyber security, test, system enhancement and deficiency resolution, and system resiliency.

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

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.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	42.024	86.465	98.398	0.000	98.398
Current President's Budget	38.289	86.465	98.572	0.000	98.572
Total Adjustments	-3.735	0.000	0.174	0.000	0.174
• 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	-2.375	0.000			
• SBIR/STTR Transfer	-1.360	0.000			
• Other Adjustments	0.000	0.000	0.174	0.000	0.174

Change Summary Explanation

FY 2023: -2.375 decrease for higher Space Force priorities.

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C. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: SCN Enhancements and Deficiency Resolution	5.470	5.705	-
Description: Provides system enhancements, deficiency resolution, test, cyber security, requirements management, and system architecture support to the SCN utilizing enterprise developed technologies or capabilities, when applicable. Additionally, the SCN is investigating multiple cyber defense tools for integration onto the SCN baseline. ***FY 2024 Plans:*** Continue to deliver enhancements and deficiency resolution in fielded SCN systems, to include newly-delivered capabilities such as AFSCN Scheduling Tool (AST) and Federal Augmentation. Address user priorities to support mission needs. Facilitate automation, efficiency and resiliency improvements for SCN and related ground resources. Activities may include, but are not limited to, program office support, studies, technical analysis, experimentation, prototyping, etc. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 reduction is due to redistribution to consolidate effort with the specific areas it supports for Satellite Operations Transmit and Receive, Satellite C2 Augmentation Services, and Cyber-secure Mission Data Transport efforts.			
Title: Satellite Operations Transmit and Receive	11.849	19.503	20.311
Description: Provides enterprise transmit, receive and resource management solutions to enable continuous satellite operations (SATOPS) from benign to contested, degraded and operationally-denied environments as part of DTRN efforts. Provides updates to SCN legacy system capability shortfalls. These updates include modernization of current scheduling, resource management, and development execution for future integrated and automated resource management and scheduling services. Additionally, the SCN will integrate with multiple enterprise cyber defense tools as part of the baseline. ***FY 2024 Plans:*** Continue the phased modernization of capabilities supporting satellite operations transmit and receive for both the current and evolving future demand. Adapt as necessary to address user priorities to responsively support mission needs. Advance the Enterprise Resource Manager (ERM) contract beyond initial capability demonstration to full system development for ground resource integration, management, and automation. Provide pre-operations support for AST. Implement necessary studies to identify shared platform, infrastructure, and data layer solutions that will inform future concepts and activities in support of enterprise open frameworks and architectures as well as risk reduction activities, technical analysis for common platform, infrastructure and data layers for ground and communication systems to build upon. Activities may include, but are not limited to, program office support, studies, technical analysis, experimentation, prototyping, etc. ***FY 2025 Plans:*** Continue the phased modernization of capabilities supporting satellite operations transmit and receive for both the current and evolving future demand. Adapt as necessary to address user priorities to responsively support mission needs. Continue			

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force	Date: March 2024
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C. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
foundational ERM system development efforts, iteratively maturing the design to assure ground resource integration, management, and automation. Continue to deliver enhancements and deficiency resolution for Satellite Operations Transmit and Receive efforts. Rapidly respond to implement system resiliency and situational awareness necessary to operate in the contested space domain. Activities may include, but are not limited to program office support, studies, technical analysis, experimentation, prototyping, and activities that may leverage commercial and international opportunities. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 increase is due to addition of a portion of funds reallocated from the SCN Enhancements and Deficiency Resolution major thrust specific to this effort.			
Title: Satellite C2 Augmentation Services ***Description:*** Provides both Federal and commercial satellite C2 services to augment SCN capabilities. Augmented services are planned to be deployed in a phased approach to address early integration and security concerns while providing increased C2 diversity and capacity to reduce the risk of congestion on the SCN. ***FY 2024 Plans:*** Continue augmentation services activities. Support initial operations of the Federal Augmentation capability. Continue pursuit of commercial augmentation solutions. Continue on-boarding and support to missions utilizing commercial C2 services. Continue development work for integration of augmentation services into ERM. Continue to implement system resiliency and situational awareness necessary to operate in the contested space domain. Activities may include, but are not limited to, program office support, studies, technical analysis, experimentation, prototyping, etc. ***FY 2025 Plans:*** Continue development and modernization of augmentation services, including integration of services into ERM, and implementation of system resiliency and situational awareness necessary to operate in the contested space domain. Support the final year of initial operations of the Federal Augmentation capability. Continue pursuit of commercial augmentation solutions. On-board missions to utilize augmentation as prescribed by user-driven need. Continue to deliver enhancements and deficiency resolution for Satellite C2 Augmentation Services efforts. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 increased due to the addition of a portion of funds reallocated from the SCN Enhancements and Deficiency Resolution major thrust.	13.748	27.276	27.978
Title: Cyber-secure Mission Data Transport ***Description:*** Provides a scalable, resilient, cyber-secure network communications architecture and infrastructure delivering intelligent, enterprise data and information transport for execution of warfighting functions. Supports worldwide ground	0.000	26.700	42.102

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force	Date: March 2024
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C. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
communications transport for USSF, other DoD Services, Intelligence Community, and Joint All-Domain Command and Control by fielding an industry standards-based mission data network featuring interoperability, cyber security (to include Zero Trust networking), cloud connectivity and multidomain facilitation. Addresses validated adversarial threats, legacy system obsolescence, bandwidth constraints, stovepipes and cost inefficiency. ***FY 2024 Plans:*** Initiate development of the post-prototype meshONE-T system to deliver a modern, scalable, resilient, cyber-secure network communications architecture for mission data transport. Release the request for proposal and award the contract for post-prototype network development, integration, and fielding. Commence deployment of new network nodes to support warfighter-prioritized mission partners and locations. Initiate system enhancements to improve timely, secure movement of data between USSF systems and downstream warfighting service elements, improve resiliency and extensibility, efficiently connect data producers and consumers, and close capability gaps. Perform pre-operations support for existing meshONE-T network mission partners and users. ***FY 2025 Plans:*** Execute the initial full year of development, integration, and fielding, following FY 2024 contract award. Continue development of the meshONE-T system to deliver a modern, scalable, resilient, cyber-secure network communications architecture for mission data transport. Continue deployment of new capabilities and upgrades, new network nodes, and communication to support warfighter-prioritized mission partners and locations. Continue to deliver enhancements and deficiency resolution for Cyber-secure Mission Data Transport efforts, and improve timely, secure movement of data between USSF systems and downstream warfighting service elements, improve resiliency and extensibility, efficiently connect data producers and consumers, and close capability gaps. Perform pre-operations support for existing meshONE-T network mission partners and users. Activities may include, but are not limited to program office support, studies, technical analysis, experimentation, prototyping, and activities that may leverage commercial and international opportunities. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 increase is due to ramp up of engineering and integration support for MeshONE-T Cyber-secure Mission Data Transport efforts.			
Title: Enterprise Systems Engineering and Integration (SE&I) ***Description:*** SE&I manages the government-controlled system and subsystem level baseline requirements including analysis of future changes to the fielded baseline. SE&I provides "government as the integrator" engineering support to ensure multiple separate modernizations and the sustainment baselines are synchronized. SE&I will develop and recommend investment strategies to keep the SCN operating into the future.	7.222	7.281	8.181

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C. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
FY 2024 Plans: Continue Program Office support and SE&I efforts as required for integration, development and modernization across data transmit, receive and transport capabilities. Provide systems and subsystem level definition, baseline, architecture, integration planning, test, and support for the SCN and augmentation services. Additionally, SE&I will provide support to SSC initiatives supporting DTRN activities. Continue to support implementation of system resiliency and situational awareness necessary to operate in the contested space domain. Activities may include, but are not limited to, program office support, studies, technical analysis, experimentation, prototyping, etc. ***FY 2025 Plans:*** Continue Program Office support and SE&I efforts as required for integration, development and modernization across data transmit, receive and transport capabilities. Provide systems and subsystem level definition, baseline, architecture, integration planning, test, and support for the SCN and augmentation services. Additionally, SE&I will provide support to SSC initiatives supporting DTRN activities. Continue to support enhancements and deficiency resolution in fielded SCN systems, to include newly-delivered capabilities, and implementation of system resiliency and situational awareness necessary to operate in the contested space domain. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 increase is due to ramp up of SE&I necessary to support the simultaneous SatOps Transmit and Receive, C2 Augmentation, and Cyber-secure Mission Data Transport efforts.			
Accomplishments/Planned Programs Subtotals	38.289	86.465	98.572

D. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• SPAF 01 1203110F: *Satellite Control Network (SPACE)*	44.583	64.345	65.656	-	65.656	66.612	55.001	56.161	57.289	Continuing	Continuing

Remarks

N/A

E. Acquisition Strategy

DT&E efforts focus on completing upgrades as well as future architectures and studies to ensure the best use of investment funding.

SCN acquisition strategy seeks to modernize satellite C2 network capabilities, DTRN, and data transmit, receive and transport architectures to increase efficiency and resiliency of SATOPS and information mobility operations. The approach addresses warfighter needs for increased satellite contact capacity, cyber security, automated

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resource management and operations, and capability resiliency. Both the ERM (competitive prototype Other Transaction (OT)) and meshONE-T (follow on production OT) efforts will be continuing system development in FY 2025 for contracts awarded in FY 2024. Changes in policy, guidance, cyber-risk concerns, and the user-community effort to establish an updated, validated set of requirements for use of commercial services to augment satellite C2 continue to result in revised plans for acquisition of an objective commercial augmentation capability.

The SE&I contractor maintains the DoD Architecture Framework (DoDAF) architecture and requirements baseline for Government approval and may perform studies to determine Government options. Limited RDT&E will be applied to Product Support Manager contracts when sustaining engineering expertise is needed to finalize Government-approved architectures. Federally Funded Research and Development Center technical depth and breadth will be leveraged to ensure SCN modernization efforts are compatible with mission rules and do not pose a risk to safe and cost-effective satellite contacts.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force			Date: March 2024
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Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
SCN Enhancements and Deficiency Resolution	Various	Various : Colorado Springs, CO	-	5.470	May 2023	4.482	May 2024	-		-		-	0.000	9.952	-
Satellite Ops Transmit and Receive - Scheduling	Various	Various : Colorado Springs, CO	-	7.273	Jan 2023	0.420	Jan 2024	0.236	Jan 2025	-		0.236	Continuing	Continuing	-
Satellite Ops Transmit and Receive - Enterprise Resource Management	C/TBD	TBD : TBD	-	0.000	Jan 2023	12.300	Jan 2024	16.339	Jan 2025	-		16.339	Continuing	Continuing	-
Satellite Commercial Augmentation Services	C/CPFF	Parsons Gov't Svcs Inc : Centreville, VA	-	3.031	Mar 2023	14.543	Mar 2024	9.575	Mar 2025	-		9.575	Continuing	Continuing	-
Satellite Federal Augmentation Services: NOAA	MIPR	NOAA : Hillcrest Heights, MD	-	4.477	Mar 2023	8.316	Mar 2024	11.104	Mar 2025	-		11.104	Continuing	Continuing	-
Satellite Federal Augmentation Services: AFRL (Blue Halo)	C/CPFF	Blue Halo LLC : Albuquerque, NM	-	0.930	Mar 2023	2.960	Mar 2024	2.153	Mar 2025	-		2.153	Continuing	Continuing	-
Cyber-secure Mission Data Transport	TBD	Not specified. : TBD	-	-		22.218	Jun 2024	34.358	Jun 2025	-		34.358	Continuing	Continuing	-
Enterprise Systems Engineering and Integration (SE&I)	SS/CPIF	ENSCO : Colorado Springs, CO	-	7.222	Nov 2022	7.281	Nov 2023	8.181	Nov 2024	-		8.181	Continuing	Continuing	-
Technical Mission Analysis	RO	Aerospace Corp : El Segundo, CA	-	2.314	Jan 2023	2.356	Jan 2024	2.936	Jan 2025	-		2.936	Continuing	Continuing	-
SBIR/STTR	TBD	TBD : TBD	-	-		3.012	May 2024	3.549	May 2025	-		3.549	Continuing	Continuing	-
		Subtotal	-	30.717		77.888		88.431		-		88.431	Continuing	Continuing	N/A

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
FFRDC	RO	Aerospace Corp : El Segundo, CA	-	2.690	Jan 2023	2.943	Jan 2024	3.591	Jan 2025	-		3.591	Continuing	Continuing	-
A&AS	Various	Various : Various	-	4.732	Jan 2023	5.334	Jan 2024	6.250	Jan 2025	-		6.250	Continuing	Continuing	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force			Date: March 2024
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Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Other	Various	Various : Various	-	0.150	Jan 2023	0.300	Jan 2024	0.300	Jan 2025	-		0.300	Continuing	Continuing	-
		Subtotal	-	7.572		8.577		10.141		-		10.141	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	38.289		86.465		98.572		-		98.572	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force		Date: March 2024
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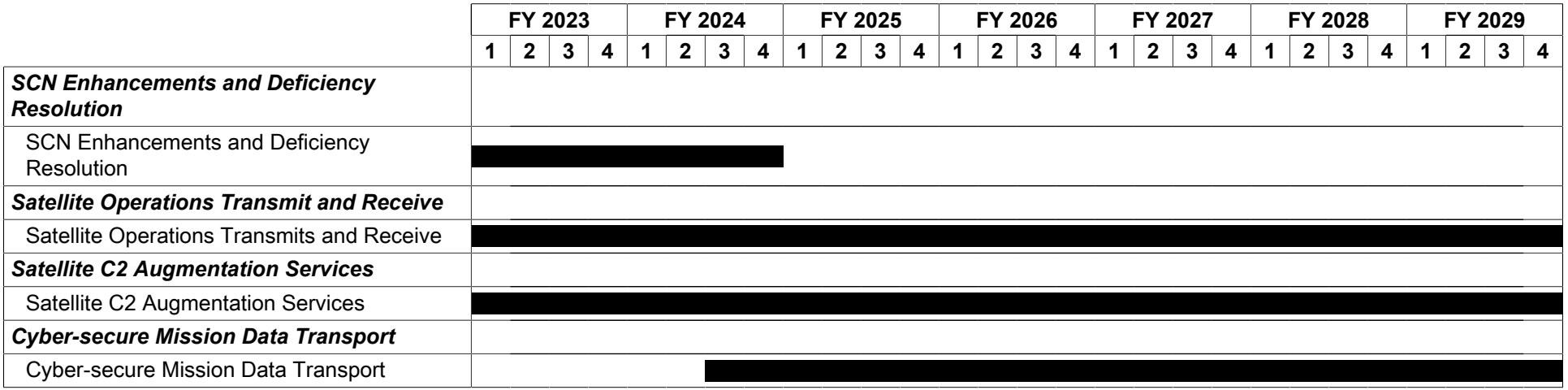

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3620F / 7	**R-1 Program Element (Number/Name)** PE 1203110SF / *Satellite Control Network (SPACE)*	**Project (Number/Name)** 673276 / *Satellite Control Network*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
SCN Enhancements and Deficiency Resolution				
SCN Enhancements and Deficiency Resolution	1	2023	4	2024
Satellite Operations Transmit and Receive				
Satellite Operations Transmits and Receive	1	2023	4	2029
Satellite C2 Augmentation Services				
Satellite C2 Augmentation Services	1	2023	4	2029
Cyber-secure Mission Data Transport				
Cyber-secure Mission Data Transport	3	2024	4	2029