Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Air Force												Date: March 2023
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 2022**	**FY 2023**	**FY 2024 Base**	**FY 2024 OCO**	**FY 2024 Total**	**FY 2025**	**FY 2026**	**FY 2027**	**FY 2028**	**Cost To Complete**	**Total Cost**
Total Program Element	-	35.543	42.024	86.465	0.000	86.465	98.398	97.488	96.652	99.590	0.000	556.160
673276: *Satellite Control Network*	-	35.543	42.024	86.465	0.000	86.465	98.398	97.488	96.652	99.590	0.000	556.160
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 7, PE 1203110SF, project 673276, Cyber-secure Mission Data Transport, is a new start.

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.

New for FY 2024 is an increase in funding in two major thrusts. The first is for Cyber-secure Mission Data Transport—a new start—to develop the objective meshONE-Terrestrial (meshONE-T) data transport network. The second is for Satellite C2 Augmentation Services, to support initial operations of Federal Augmentation Services capabilities, providing additional contact capacity for satellite operations.

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 (Institute of Electrical and Electronics Engineers (IEEE) and Internet Engineering Task Force (IETF)) protocols to move data traffic quickly, efficiently, and securely across the Internet Protocol (IP)-based network architecture. The pathfinder, comprised

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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 objective meshONE-T effort proliferates this modern service to additional mission partners and locations—anticipated to include all principal USSF sites—in accordance with warfighter priorities. Supplementary CONUS and 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 on meshONE-T 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 Ground Enterprise Next (GEN), 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.

Space acquisition must respond with speed and agility to emerging adversary threats. Space Systems Command (SSC) has transformed the organization and implementation of space acquisition to an enterprise approach to increase 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, SSC will strategically execute experimentation, prototyping, risk reduction, and other efforts to develop new or repurpose existing capabilities, and will continue to plan and develop solutions based upon established, industry standards and open architectures to support both the SDA & BMC3 missions to meet dynamic emerging threats.

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.

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B. Program Change Summary ($ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	36.810	42.199	49.499	0.000	49.499
Current President's Budget	35.543	42.024	86.465	0.000	86.465
Total Adjustments	-1.267	-0.175	36.966	0.000	36.966
• Congressional General Reductions	0.000	-0.175			
• 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	0.000	0.000			
• SBIR/STTR Transfer	-1.267	0.000			
• Other Adjustments	0.000	0.000	36.966	0.000	36.966

Change Summary Explanation

FY 2022: -1.267M for SBIR/STTR Transfer
FY 2023: -0.175M for Congressional General Reductions
FY 2024: +26.700M; to initiate post-prototype meshONE-Terrestrial system.
FY 2024: +13.253M; to initiate support initial operations of the Federal Augmentation capability.
FY 2024: -3.063M; the FY 2024 funding request was reduced by $3.063M to account for the availability of prior year execution balances.
FY 2024: -0.325M; to realign funding to APPN 3410, PE 1207804SF (SAG 13C), for fiscal policy compliance as Space Systems Command (SSC) establishes Headquarters functions and a Chief Information Office (CIO) for integrated cybersecurity.

C. Accomplishments/Planned Programs ($ in Millions)	FY 2022	FY 2023	FY 2024
Title: SCN Enhancements and Deficiency Resolution	6.485	4.459	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 2023 Plans:*** Continue to deliver enhancements and deficiency resolution in fielded SCN systems. 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 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			

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Air Force	Date: March 2023
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C. Accomplishments/Planned Programs ($ in Millions)	FY 2022	FY 2023	FY 2024
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 2023 to FY 2024 Increase/Decrease Statement:*** FY 2024 increased compared to FY 2023 to support the delivery of AST and Federal Augmentation.			
Title: Satellite Operations Transmit and Receive ***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 GEN 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 for as part of the baseline. ***FY 2023 Plans:*** Continue the phased modernization of capabilities supporting data transmit, receive and transport for both the current and evolving future demand. Adaptably address user priorities to responsively support mission needs. Award initial Enterprise Resource Management (ERM) contract and begin development of ERM ground resource integration, management, and automation capabilities. Complete AST phased deployments and finish transitioning SCN Scheduling onto 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 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 Management (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 2023 to FY 2024 Increase/Decrease Statement:***	12.444	18.303	19.503

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C. Accomplishments/Planned Programs ($ in Millions)	FY 2022	FY 2023	FY 2024
FY 2024 increased compared to FY 2023 due to ERM transitioning to full system development.			
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 2023 Plans:*** Continue Federal Augmentation and Commercial Augmentation Services activities. Implement Operational Test and Operational Acceptance for initial Federal missions. Continue on-boarding and support to missions utilizing CAS. 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 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 2023 to FY 2024 Increase/Decrease Statement:*** FY 2024 increased compared to FY 2023 to fund interim contractor support activities for the Federal Augmentation capability.	10.418	13.481	27.276
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 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 2023 Plans:*** N/A ***FY 2024 Plans:***	-	0.000	26.700

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C. Accomplishments/Planned Programs ($ in Millions)	FY 2022	FY 2023	FY 2024
Initiate development of the post-prototype meshONE-Terrestrial (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 2023 to FY 2024 Increase/Decrease Statement:*** FY 2024 increased compared to FY 2023 to initiate the development and deployment of the post-prototype meshONE-T system.			
Title: Enterprise Systems Engineering and Integration (SE&I)	6.196	5.781	7.281
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 well beyond the Future Years Defense Plan. ***FY 2023 Plans:*** Continue Program Office support and SE&I efforts as required to integrate development and modernization across the SCN. 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 GEN 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 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 GEN 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 2023 to FY 2024 Increase/Decrease Statement:***			

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C. Accomplishments/Planned Programs ($ in Millions)	FY 2022	FY 2023	FY 2024
FY 2024 increased compared to FY 2023 to support the development of ERM and development & deployment of the post-prototype meshONE-T system.			
Accomplishments/Planned Programs Subtotals	35.543	42.024	86.465

D. Other Program Funding Summary ($ in Millions)

Line Item	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
• SPAF 01 1203110F: *Satellite Control Network (SPACE)*	39.655	45.963	64.345	-	64.345	68.240	69.493	54.929	56.080	0.000	398.705

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 is evolving from completing obsolescence, resiliency, and cyber security upgrades for existing satellite C2 network assets to future planning for the evolution of the SCN, Ground Enterprise Next (GEN), and data transmit, receive and transport architectures to increase efficiency and resiliency of SATOPS operations. This evolution will integrate the commercial and federal augmentation services with the SCN to create a comprehensive system for automated resource management known as Enterprise Resource Management (ERM). ERM plans to award initial contracts in FY 2023 and down-select to a single vendor in FY2024. Changes in policy, guidance, cyber-risk concerns, and requirements for use of commercial services to augment satellite C2 prompted the release of a competitive request for proposal for a Commercial SATOPS Network (CSN) capability in FY 2024. MeshONE-Terrestrial plans to release a request for proposal and award a contract for development, integration, and fielding in FY 2024.

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 the Consolidated SCN Modifications, Maintenance, and Operations (CAMMO) contract when sustaining engineering expertise is needed to finalize Government-approved architectures. Federally Funded Research and Development Corporation 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 2024 Air Force			Date: March 2023
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Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
SCN Enhancements and Deficiency Resolution	Various	TBD : Colorado Springs, CO	-	6.485	May 2022	4.459	May 2023	4.482	May 2024	-		4.482	Continuing	Continuing	-
Satellite Ops Transmit and Receive - Scheduling	Various	Various : Colorado Springs, CO	-	6.221	Jan 2022	4.709	Jan 2023	0.420	Jan 2024	-		0.420	Continuing	Continuing	-
Satellite Ops Transmit and Receive - Enterprise Resource Management	C/TBD	TBD; TBD : TBD	-	-		5.400	Jan 2023	12.300	Jan 2024	-		12.300	Continuing	Continuing	-
C2 Augmentation	Various	TBD; TBD : TBD	-	10.418	Mar 2022	13.481	Oct 2022	25.819	Oct 2023	-		25.819	Continuing	Continuing	-
Cyber-secure Mission Data Transport	TBD	Not specified. : TBD	-	-		-		22.218	Jun 2024	-		22.218	Continuing	Continuing	-
Enterprise Systems Engineering and Integration (SE&I)	SS/CPIF	ENSCO : Colorado Springs, CO : TBD	-	6.196	Nov 2021	5.781	Nov 2022	7.281	Nov 2023	-		7.281	Continuing	Continuing	-
Technical Mission Analysis	RO	Aerospace Corp : El Segundo, CA : TBD	-	1.804	Jan 2022	2.331	Jan 2023	2.356	Jan 2024	-		2.356	Continuing	Continuing	-
SBIR/STTR	TBD	TBD : TBD	-	-		-		3.012	May 2024	-		3.012	Continuing	Continuing	-
		Subtotal	-	31.124		36.161		77.888		-		77.888	Continuing	Continuing	N/A

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
FFRDC	Various	Aerospace Corp, : El Segundo, CA : TBD	-	1.808	Jan 2022	1.848	Jan 2023	2.943	Jan 2024	-		2.943	Continuing	Continuing	-
A&AS	Various	TBD:TBD : TBD	-	2.461	Jan 2022	3.715	Jan 2023	5.334	Jan 2024	-		5.334	Continuing	Continuing	-
Other	Various	Various : TBD	-	0.150	Jan 2022	0.300	Jan 2023	0.300	Jan 2024	-		0.300	Continuing	Continuing	-
		Subtotal	-	4.419		5.863		8.577		-		8.577	Continuing	Continuing	N/A

	Prior Years	FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	35.543		42.024		86.465		-		86.465	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Air Force			Date: March 2023
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	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024 Air Force		Date: March 2023
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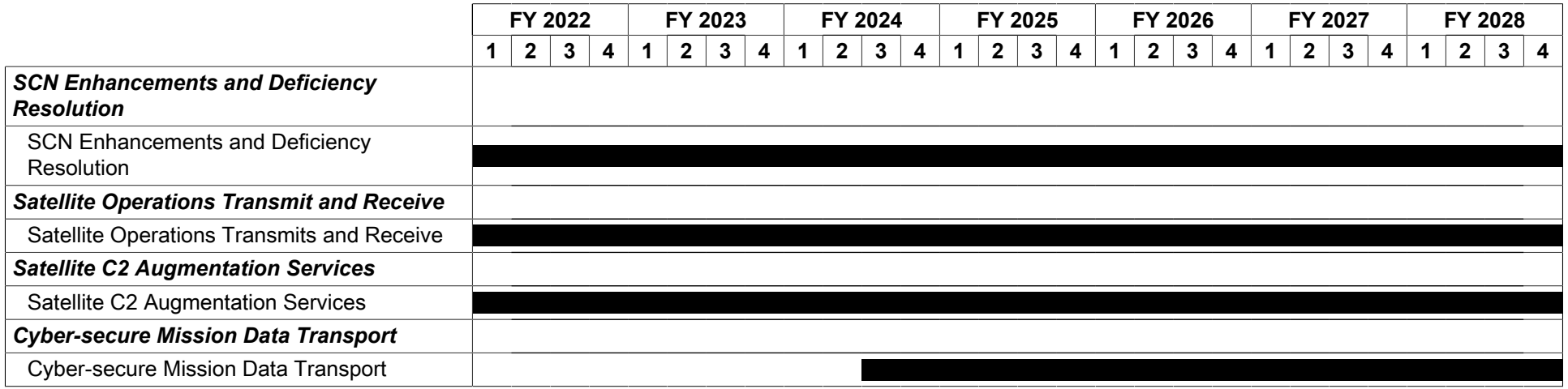

Exhibit R-4A, RDT&E Schedule Details: PB 2024 Air Force		Date: March 2023
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Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
SCN Enhancements and Deficiency Resolution				
SCN Enhancements and Deficiency Resolution	1	2022	4	2028
Satellite Operations Transmit and Receive				
Satellite Operations Transmits and Receive	1	2022	4	2028
Satellite C2 Augmentation Services				
Satellite C2 Augmentation Services	1	2022	4	2028
Cyber-secure Mission Data Transport				
Cyber-secure Mission Data Transport	3	2024	4	2028