Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Navy	Date: April 2022
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0206625M *I USMC Intelligence/Electronics Warfare Sys*

COST ($ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	195.922	29.983	37.695	51.976	-	51.976	45.501	33.316	29.421	31.373	Continuing	Continuing
2272: *Intel Command and Control (C2) Sys*	182.963	23.394	31.066	44.891	-	44.891	38.049	25.783	21.818	23.667	Continuing	Continuing
3771: *Tactical Exploitation of National Capabilities (TENCAP)*	12.959	6.589	6.629	7.085	-	7.085	7.452	7.533	7.603	7.706	Continuing	Continuing

A. Mission Description and Budget Item Justification

This Program Element (PE) for Intelligence Command and Control (C2) includes Military Intelligence Program (MIP) funds for Marine Corps Intelligence capabilities necessary to support the employment of intelligence, reconnaissance, surveillance (ISR), and target acquisition resources integral to delivering decision advantage at the speed of operational relevance outlined in the 2018 National Defense Strategy. Marine Corps intelligence capabilities are divided into three functional areas organized along intelligence processes: Sensing (Persistent ISR), Analysis (Distributed Common Ground/Surface System Marine Corps (DCGS-MC)), and Dissemination (Intelligence Dissemination and Utilization (IDU)). This PE funds the Sensing and Dissemination portfolios while the Analysis portfolio is budgeted under DCGS-MC PE 0305208M.

B. Program Change Summary ($ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	29.983	37.695	0.000	-	0.000
Current President's Budget	29.983	37.695	51.976	-	51.976
Total Adjustments	0.000	0.000	51.976	-	51.976
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	0.000	-	0.000
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000
• Adjustments to Budget Year	-	-	51.976	-	51.976

Change Summary Explanation

The FY 2022 to FY 2023 overall increase of $14.281M is primarily attributed to the initiation of product development efforts in support of Mobile All-Domain Observation and Sensing System (MA-DOSS). Funds also continue to support GBOSS product development and integration of Artificial Intelligence/Machine Learning hardware and software efforts.

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The FY 2023 funding request was adjusted by $1.619M to account for the availability of prior year execution balances.

FY 2023 funding increase reflects the fact that the FY 2022 President’s Budget request did not include out-year funding.

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Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0206625M / *USMC Intelligence/Electronics Warfare Sys*	Project (Number/Name) 2272 / *Intel Command and Control (C2) Sys*	

COST ($ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
2272: *Intel Command and Control (C2) Sys*	182.963	23.394	31.066	44.891	-	44.891	38.049	25.783	21.818	23.667	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

INTELLIGENCE COMMAND AND CONTROL (C2): includes Military Intelligence Program (MIP) funds for Marine Corps Intelligence capabilities necessary to support the employment of intelligence, reconnaissance, surveillance (ISR), and target acquisition resources integral to delivering decision advantage at the speed of operational relevance outlined in the National Defense Strategy. Enables key Marine Corps Force Design capabilities for both Force Design initial operational capability (IOC) and full operational capability (FOC).

This capability involves sensing the operational environment through a variety of systems, from satellites overhead to reconnaissance Marines on the ground.

COMMUNICATION EMITTER SENSING and ATTACKING SYSTEM (CESAS). This is a Marine Corps Force Design program. CESAS II FoS is the USMC high power, back-packable, team portable, and ground mobile electronic warfare (EW) asset employed by Radio Battalion trained Signals Intelligence Electronic Warfare (SIEW) operators capable of supporting electromagnetic spectrum (EMS) dominance against a peer threat. CESAS supports the MAGTF commander in the execution of his EW operations and information operations, by detecting, denying, and disrupting hostile communication emitters across a broad range of communication frequencies. CESAS covers the high frequency (HF), very high frequency (VHF), and ultra-high frequency (UHF) frequency ranges against enemy emitters using modern modulation schemes. CESAS allows flexible employment to conduct EW while on the move or in a stationary position, thus optimizing the commander's ability to employ this asset for the greatest success of the mission. CESAS addresses Force Design shortfalls in EW and disruptive, less-lethal capabilities appropriate for countering malign activity by actors pursuing maritime gray zone strategies. An increase to the CESAS II FoS Authorized Acquisition Objective (AAO) in support of Force Design 2030 initiatives equips SIEW Teams to the infantry battalion, and Radio Reconnaissance Teams (RRTs), Light Armored Vehicle - Electronic Warfare (LAV-EW), Marine Corps Forces Special Operations (MARSOC) and the Support Establishment with modern electronic warfare (EW) systems capable of countering peer threat systems. CESAS uses an incremental acquisition strategy, providing technical refresh for legacy systems as the systems become obsolete and/or require technology insertions to maintain pace with our adversaries. CESAS also includes Advanced Electronic Warfare Digital Payload (AEWDP), Spectrum Services Framework (SSF), and Constructive Electromagnetic Operational Environment System (CEMOES). AEWDP provides the MAGTF a modular, scalable, and transportable EW system able to exploit and disrupt enemy command and control, and intelligence surveillance reconnaissance in an anti-access/area denial environment using non-traditional attack vectors. SSF is a Services Oriented Framework enabling the Electromagnetic Operations Cell to perform its mission by providing a critical open backend framework for rapid development of software services and applications across real-time and historical Electromagnetic Spectrum (EMS) data to support mission planning and execution of Electromagnetic Spectrum Operations (EMSO) and Cyberspace Operations across the MAGTF's Operational Environment. CEMOES provides an organic, unit-employable capability that creates a realistic operational frequency environment for multiple occupational fields to perform full electromagnetic spectrum home station training. The Marine Corps affirms with a high degree of confidence that the programs in this line item are executable.

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INTEGRATED BROADCAST RADIO (IBR). This is a top critical Marine Corps Force Design program. IBR is a family of terminals that provide direct, over-the-air access to the Integrated Broadcast Service (IBS) and receive and process near-real time (NRT) multi-intelligence data from strategic, theater, and tactical sensors to include: Theater Missile Defense indications and warnings, target tracks, and battlefield awareness information to the tactical user and long-range Fires platforms. IBR terminals conform to the Department of Defense (DoD) objectives of interoperability and commonality to receive and process multi-intelligence data. Able to operate receive-only for critical emissions control, IBR terminals adhere to the 38th Commandant's Planning Guidance and is essential to Force Design 2030 by providing the Marine Stand-In force with low signature, tactical, and affordable capabilities that support Expeditionary Advanced Base Operations, and Distributed Maritime Operations in a fast paced, widely dispersed, peer-threat maritime operating environment. The IBR program is an evolving, multiservice architecture designed to keep pace with Commanders' targeting and information requirements, currently accomplished using the universal serial bus (USB) Embedded National Tactical Receiver (ENTR) version 2 (V2) and the ENTR version 4 (V4) which provides a 50% weight reduction and doubles the life expectancy of the battery compared to the USB ENTR V2. Additionally, IBR is instituting Primary, Alternate, Contingency, Emergency (PACE) Plan requirements identified in the Joint Requirements Oversight Counsel (JROC) approved IBS Enterprise Information Systems - Capability Development Document (IS-CDD). IBR terminals provide connectivity to IBS Common Interactive Broadcast and IBS Alternative Path via UHF satellite communications (SATCOM) channels. The IBR program is also planning a transmit capability to deliver USMC sensor data to the IBS.

TACTICAL SIGNALS INTELLIGENCE (SIGINT) COLLECTION SYSTEM (TSCS). This is a Marine Corps Force Design program. TSCS provides modular, lightweight, and team portable/body worn systems and components that provide signals intercept, collection, direction-finding (DF) precision geo-location, reporting and collection management capability in the Marine Air-Ground Task Force (MAGTF). TSCS contributes to the MAGTF's Intelligence, Surveillance, and Reconnaissance (ISR) capability, enables Electronic Warfare (EW), and lethal strike capabilities; and provides the disruptive and less-lethal capabilities appropriate for countering malign activity by actors pursuing maritime "gray zone" strategies that is desired in the 38th Commandant's Force Design 2030. These capabilities enable Expeditionary Advanced Base Operations (EABO) by supporting operations to both locate and target more advanced threat communications technology. The TSCS Family of Systems (FoS) incorporates the Radio Reconnaissance Equipment Program (RREP) and Team Portable Collection Systems - Multi-Platform Capable (TPCS-MPC) programs into a single program, providing a modular and scalable suite of equipment that exploits information from more technically advanced target sets. Platform Integration Kits (PIK) allow Marines to utilize equipment from the TSCS FoS, on USMC tactical vehicles and the MV-22 to provide Precision Geolocation (PGL) capability which enables Marines to locate specific signal emitters with much higher levels of accuracy and enables precision targeting. The TSCS FoS has an incremental acquisition strategy, providing technical refresh for legacy TPCS-MPC and RREP systems as the systems become obsolete and/or require technology insertions to maintain pace with our adversaries.

SENSITIVE COMPARTMENTED INFORMATION COMMUNICATIONS (SCI COMMS) is a Ultra-High Frequency, multi-band satellite communications Family of Systems (FoS),that provides a tactical communications capability at the Top Secret (TS)/SCI and Secret Collateral levels to USMC units in support of Intelligence Operations. The SCI COMMS FoS is the only deployable communications system that is dedicated for TS/SCI data, video and voice communications that can receive and transmit bulk data and imagery products to and from national and tactical intelligence sources. It supports Force Design 2030 by enabling a resilient, federated system of networks to ensure all elements can fight in a degraded command and control environment. The FoS consists of palletized, team level, and man-packable systems - High Bandwidth Special Intelligence- Palletized Terminal (HBSI-PT), Sensitive Compartmented Intelligence Kit (SCIK), and SCI Comms Mobility Pack (SCI Comms MP) - which provide USMC tactical commanders with high-capacity, near-real-time access to intelligence from national agencies, joint intelligence centers,

coalition service activities, intelligence producers, and other tactical units via connectivity to Sensitive Compartmented Information Network (SCI NET), National Security Agency (NSA) Network, coalition networks, and Secret Internet Protocol Router Network (HBSI-PT only).

TERRESTRIAL COLLECTION provides a tactical sensor Family of Systems (FoS) organic to the MAGTF ground and maritime reconnaissance elements to facilitate near-real time Persistent ISR (PISR) sensing to MAGTF decision makers and users. Sensors are networked to enable the sharing of standard data, support of Expeditionary Advanced Basing Operations, and information to support all Marine Corps warfighting functions (Command and Control, Intelligence, Operations, Protection, Fires, Maneuver, and Information) with targeting and battlespace awareness. An array of sensor delivery methods and a variety of sensor characteristics enable operational forces to sense in air, land, and maritime environments to determine threat location, disposition, movement and direction, all-weather multi-modal sensing, location determination, targeting, and tactical indications and warning of enemy activity, organic tactical digital imagery collection, transmission and receiving capability to the MAGTF Commander. The Terrestrial Collection Systems portfolio combined two legacy systems, the Tactical Remote Sensor System and MAGTF Secondary Imaginary Imagery Dissemination System (TRSS and MSIDS) into one program. Starting in FY 2021, the program focused on providing a next generation Family of Persistent Sensors Advanced Unattended Ground Sensors as the successor to the legacy TRSS program, with a potential Initial Operational Capability delivery in FY 2024. In FY 2023 funds related to GBOSS capability were realigned to Mobile All-Domain Observation and Sensing Systems (MA-DOSS).

Mobile All-Domain Observation and Sensing System (MA-DOSS) FoS provides persistent, all-domain sensing and surveillance support, tactical early warning, multi-domain counter-intrusion, and forward edge processing/computing of an AI/ML based computer vision capability to the FMF, at the Marine Littoral Regiment (MLR), down to any sized Marine element, in order to support the Naval Expeditionary Force (NEF) in the conduct of Sea Denial and Sea Control operations, and to enable force protection for expeditionary advanced bases (EABs), forward fixed sites, and installations. Additionally it will provide a neutralization/defeat capability for unmanned systems (CUXS) in the maritime (surface and subsurface), ground, and low altitude air domains while integrating with other CUAS platforms. By providing mobile, expeditionary, amphibious, modular, multi-spectral, and persistent surveillance systems based on sensor agnostic unmanned platforms, the MA-DOSS FoS will provide the ability to observe, collect, detect, classify, identify, track, record, and report on contacts, objects of interest, and assess threats twenty-four hours a day utilizing a fused sensor data display while reducing manpower requirements and the cognitive workload on operators and analysts. MA-DOSS will employ advanced Human Machine Teaming (HMT) and leverage the force-multiplying capabilities of Artificial Intelligence/Machine Learning (AI/ML) to execute tasks that normally require human intelligence/interface. Additionally, increased mobility will be achieved with autonomous robotic platforms, thereby enhancing survivability of the system and stand-in forces operating inside adversary weapon engagement zones (WEZ). Beginning FY 2023, funds related to GBOSS capability were realigned from TERRESTRIAL COLLECTION to Mobile All-Domain Observation and Sensing Systems (MA-DOSS).

COUNTER INTELLIGENCE and HUMAN INTELLIGENCE (CI/HUMINT) EQUIPMENT PROGRAM (CIHEP) provides the Marine Corps Intelligence, Surveillance, and Reconnaissance Enterprise (MCISRE) with an integrated, standardized, and interoperable suite of information and communication systems. The CIHEP program provides specialized equipment that is lightweight, modular, and tailorable, in deployable packages to conduct full spectrum, tactical CI/HUMINT activities, to include technical operations. The technical side of CIHEP operations use techniques to detect, neutralize, and exploit hostile technical surveillance technologies and hazards that permit the unauthorized access to or removal of information. CI/HUMINT elements are generally task-organized in support of a MAGTF or other supported commanders, providing them the capability to rapidly collect, process, and disseminate counterintelligence and human intelligence information in support of military planning and operations. CIHEP is comprised of commercial and government off the-shelf equipment. Different components are selected for refresh each year to

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maintain current capabilities and ensure interoperability and standardization with related systems. This results in an equipment suite that enhances the operating force's CI/HUMINT capabilities, while maintaining interoperability within the USMC and joint CI/HUMINT communities. The modularity of the CIHEP program allows Marines to perform a variety of missions in support of commanders, while carrying only those items necessary to accomplish the mission. CIHEP provides state-of-the-art mission critical information protection capabilities, as well as the ability to detect, identify, and locate specific technical threats.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Title: *Communication Emitter Sensing and Attacking System (CESAS): Product Development	4.255	13.413	8.580	0.000	8.580
Articles:	-	-	-	-	-
FY 2022 Plans: - Continue development of Spectrum Services Framework (SSF). - Initiate development of new services onto the SSF, allowing users to ingest critical spectrum information to increase Unit Commanders' situational awareness of the battlefield. - Initiate the migration of the SSF onto a Common Hosting Environment in order to reside on currently existing program of record hardware, thus reducing the logistical footprint of the units. - Continue development of CESAS II Family of Systems (FoS) Enhanced Electronic Warfare (EW) to include vehicle Platform Integration Kits (PIKs), Artificial Intelligence/Machine Learning software for increased speed and identification of threats, and increase Electronic Support (ES) frequency range. - Continue development efforts related to Engineering Change Proposals (ECPs) for hardware/software modifications and enhancements via Engineering Change Proposals (ECPs) to the CESAS II FoS. - Initiate development of Advanced Electronic Warfare Digital Payload (AEWDP) scalable effort to provide a modular system capable of integration into USMC vehicles. - Initiate development of Constructive Electromagnetic Operational Environment System (CEMOES) to generate a contested Electromagnetic Spectrum (EMS) environment to provide the Operating Forces (OPFOR) the ability to conduct realistic spectrum training. - Initiate tech refresh of laptops and tablets.					
FY 2023 Base Plans: -Continue development of CESAS Family of Systems (FoS) Enhanced Electronic Warfare (EW) to include vehicle integration PIKs, enhanced software baselines, and upgraded/additional antennas to enhance techniques and frequency range; hardware/software modifications will be implemented via Engineering Change Proposals (ECPs). -Continue development of Advanced Electronic Warfare Digital Payload (AEWDP) scalable effort to provide a modular system capable of integration into USMC vehicles.					

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
-Continue development of Constructive Electromagnetic Operational Environment System (CEMOES) to generate a contested Electromagnetic Spectrum (EMS) environment to provide the Operating Forces (OPFOR) the ability to conduct realistic spectrum training. ***FY 2023 OCO Plans:*** N/A ***FY 2022 to FY 2023 Increase/Decrease Statement:*** Decrease of $4.833M from FY 2022 to FY 2023 reflects moving Spectrum Services Framework (SSF) from product development to support.					
Title: *Communication Emitter Sensing and Attacking System (CESAS): Support	0.075	0.075	5.521	0.000	5.521
Articles:	-	-	-	-	-
FY 2022 Plans: - Continue to provide program support for CESAS II FoS, Advanced Electronic Warfare Digital Payload (AEWDP) and Spectrum Services Framework (SSF). - Initiate program support for CEMOES. ***FY 2023 Base Plans:*** -Continue to provide program support for Communications Emitter Sensing and Attacking System (CESAS) II Family of Systems (FoS). -Continue program support for AEWDP. -Continue program support for CEMOES. -Continue the migration of the SSF into the Common Hosting Environment in order to reside on currently existing program of record hardware, thus reducing the logistical footprint of the units. -Continue development of Spectrum Services Framework (SSF). -Continue development of new services onto the SSF, allowing users to ingest critical spectrum information to increase Unit Commanders' situational awareness of the battlefield. ***FY 2023 OCO Plans:*** N/A ***FY 2022 to FY 2023 Increase/Decrease Statement:***					

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
The increase of $5.446M from FY 2022 to FY 2023 reflects moving Spectrum Services Framework (SSF) from product development to support.					
Title: *Communication Emitter Sensing and Attacking System (CESAS): Test and Evaluation	0.500	0.500	0.710	0.000	0.710
Articles:	-	-	-	-	-
FY 2022 Plans: - Complete development and delivery of System Engineering artifacts, system design, test plans and reports, and requirements analysis. - Conduct vehicle Platform Integration Kits (PIKs) test and evaluation to include Hazards of Electromagnetic Radiation to Ordinance, Personnel, and Fuel (HERO/HERP/HERF), Antenna Pattern, Direction Finding (DF) Manifold Generation, Co-Site, Aberdeen PIK testing and Component Electromagnetic Interference (EMI) and Environmental Testing.					
FY 2023 Base Plans: -Complete development and delivery of System Engineering artifacts, system design, test plans and reports, and requirements analysis. -Conduct test and evaluation to include Hazards of Electromagnetic Radiation to Ordinance, Personnel, and Fuel (HERO/HERP/HERF), Antenna Pattern, Direction Finding (DF) Manifold Generation, Co- Site, Aberdeen PIK testing and Component Electromagnetic Interference (EMI) and Environmental Testing. -Initiate development testing of AEWDP and CEMOES.					
FY 2023 OCO Plans: N/A					
FY 2022 to FY 2023 Increase/Decrease Statement: Increase of $0.210M from FY 2022 to FY 2023 is attributed to the initiation of development testing in support of AEWDP and CEMOES.					
Title: *Integrated Broadcast Radio (IBR): Product Development	3.092	4.586	3.200	0.000	3.200
Articles:	-	-	-	-	-
FY 2022 Plans: - Continue ENTR system integration and test support, common integrated broadcast (CIB) upgrade and system optimization support, and CIB operational testing. - Initiate research, testing and development for transceivers identified in the Integrated Broadcast Services (IBS) Enterprise Information Systems - Capability Development Document (IS-CDD).					

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
- Continue testing and integration efforts for resilient waveform and cryptographic technologies. ***FY 2023 Base Plans:*** -Complete ENTR system integration and test support, common integrated broadcast (CIB) upgrade and system optimization support, and CIB operational testing. - Continue research, testing, and development for system updates to ENTR Version 4 in order to maintain compatibility with modernization plans identified in the Integrated Broadcast Services (IBS) Enterprise Information Systems - Capability Development Document (IS-CDD) - Continue testing and integration efforts for resilient waveform and cryptographic technologies. ***FY 2023 OCO Plans:*** N/A ***FY 2022 to FY 2023 Increase/Decrease Statement:*** Decrease of $1.386M FY 2022 to FY 2023 reflects the planned level of effort for the transmit capability development.					
Title: *Tactical Signal Intelligence (SIGINT) Collection System (TSCS): Product Development	5.192	6.974	5.676	0.000	5.676
Articles:	-	-	-	-	-
FY 2022 Plans: - Complete development and integration of Advanced Signal Processor (ASP) (Formerly advanced digital payload/electronic warfare technology) (Increment 4). - Continue development of required software capability to the TSCS baseline in order to counter emerging near peer asymmetric adversary threats. - Complete integration of Artificial Intelligence/Machine Learning (AI/ML) software. - Initiate development of Precision Geolocation (PGL). The PGL capability allows Marines to locate specific signal emitters with more accuracy. The fielded PGL capability is outdated and incapable of operating against modern communications technology. - Initiate development of the MV-22 Platform Integration Kit (PIK) to allow Marines to use TSCS equipment on the MV-22 Osprey to conduct Aerial Signal Research and Target Development (A-SRTD) operations to locate specific signal emitters. The current MV-22 PIK relies on outdated receiver technology and is incapable of operations against near-peer communications technology. ***FY 2023 Base Plans:***					

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
- Continue development of required software capability to the TSCS baseline in order to counter emerging near peer asymmetric adversary threats. - Initiate development of Tethered Antenna to allow signals collection above triple canopy providing detection, identification, and location of adversary signals of interest. - Complete development of Precision Geolocation (PGL). The PGL capability allows Marines to locate specific signal emitters with more accuracy. The fielded PGL capability is outdated and incapable of operating against modern communications technology. - Complete development of the MV-22 Platform Integration Kit (PIK) to allow Marines to use TSCS equipment on the MV-22 Osprey to conduct Aerial Signal Research and Target Development (A-SRTD) operations to locate specific signal emitters. The current MV-22 PIK relies on outdated receiver technology and is incapable of operations against near-peer communications technology. ***FY 2023 OCO Plans:*** N/A ***FY 2022 to FY 2023 Increase/Decrease Statement:*** Decrease of $1.298M reflects completion of the Artificial Intelligence/Machine Learning (AI/ML) software.					
Title: *Tactical Signal Intelligence (SIGINT) Collection System (TSCS): Test and Evaluation	1.853	1.850	1.557	0.000	1.557
Articles:	-	-	-	-	-
FY 2022 Plans: - Complete testing for Artificial Intelligence/Machine Learning (AI/ML) algorithm development. - Procure test articles for Precision Geolocation (PGL) and MV-22 Platform Integration Kit (PIK). - Continue testing of the TSCS software baseline updates. - Continue testing of the Advanced Signal Processor (ASP) (Formerly advanced digital payload/electronic warfare technology). ***FY 2023 Base Plans:*** - Continue testing of the TSCS software baseline updates. - Complete testing of the Advanced Signal Processor (ASP) (Formerly advanced digital payload/electronic warfare technology). - Initiate and complete testing of the Precision Geolocation (PGL) and MV-22 Platform Integration Kit (PIK) ***FY 2023 OCO Plans:***					

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
N/A ***FY 2022 to FY 2023 Increase/Decrease Statement:*** Decrease of $0.293M from FY 2022 to FY 2023 due to completion of the Artificial Intelligence/Machine Learning (AI/ML) algorithm development.					
Title: *SCI COMMS: Product Development ***Articles:*** ***FY 2022 Plans:*** - Initiate development of the High Bandwidth Special Intelligence-Palletized Terminal (HBSI-PT) replacement. - Initiate and complete development of Mobility Pack Modification kits/upgrades. ***FY 2023 Base Plans:*** - Continue development of the High Bandwidth Special Intelligence-Palletized Terminal (HBSI-PT) replacement. ***FY 2023 OCO Plans:*** N/A ***FY 2022 to FY 2023 Increase/Decrease Statement:*** No significant increase from FY 2022 to FY 2023.	0.000 -	0.714 -	0.730 -	0.000 -	0.730 -
Title: *SCI COMMS: Support ***Articles:*** ***FY 2022 Plans:*** - N/A ***FY 2023 Base Plans:*** - N/A ***FY 2023 OCO Plans:*** N/A	0.021 -	0.000 -	0.000 -	0.000 -	0.000 -
Title: *SCI COMMS: Test and Evaluation ***Articles:*** ***FY 2022 Plans:*** - N/A ***FY 2023 Base Plans:***	0.682 -	0.000 -	0.000 -	0.000 -	0.000 -

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
- N/A ***FY 2023 OCO Plans:*** N/A					
Title: *Terrestrial Collection: Product Development ***Articles:*** ***FY 2022 Plans:*** - Continue engineering, integration, and technical support required for planned Terrestrial Collection modernization. - Continue product development and integration of Artificial Intelligence/Machine Learning hardware and software within Sensor Family of Systems which will provide object detection capabilities resulting in decreased time required to conduct Indications and Warnings (I&W). - Complete engineering and integration required for the Ground Reconnaissance Communications Capability to allow users to more efficiently provide imagery intelligence products to the larger enterprise, increase battlespace awareness, and increase fires capability. ***FY 2023 Base Plans:*** - Continue engineering, integration, and technical support required for planned Terrestrial Collection modernization. - Continue product development and integration of Artificial Intelligence/Machine Learning hardware and software within Sensor Family of Systems which will provide object detection capabilities resulting in decreased time required to conduct Indications and Warnings (I&W). ***FY 2023 OCO Plans:*** N/A ***FY 2022 to FY 2023 Increase/Decrease Statement:*** Decrease of $1.335M from FY 2022 to FY 2023 reflects completion of engineering and integration required for the Ground Reconnaissance Communications capability.	4.379 -	2.604 -	1.269 -	0.000 -	1.269 -
Title: *Mobile All-Domain Observation and Sensing System (MA-DOSS) : Product Development ***Articles:*** ***FY 2022 Plans:***	0.000 -	0.000 -	17.290 -	0.000 -	17.290 -

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Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/Electronics Warfare Sys*	**Project (Number/Name)** 2272 / *Intel Command and Control (C2) Sys*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
N/A ***FY 2023 Base Plans:*** - Product development and integration of GBOSS Artificial Intelligence/Machine Learning hardware and software within Sensor Family of Systems which will provide object detection capabilities resulting in decreased time required to conduct Indications and Warnings (I&W). - Initiate product development efforts in support of the Mobile All-Domain Observation and Sensing System (MA-DOSS) FoS The MA-DOSS Fos will provide the ability to observe, collect, detect, classify, identify, track, record, and report on contacts, objects of interest, and assess threats twenty-four hours a day utilizing a fused sensor data display while reducing manpower requirements and the cognitive workload on operators and analysts. ***FY 2023 OCO Plans:*** N/A ***FY 2022 to FY 2023 Increase/Decrease Statement:*** Increase of $17.290M from FY 2022 to FY 2023 reflects initiation of product development efforts in support of MA-DOSS Fos. Funds also continue to support GBOSS product development and integration of Artificial Intelligence/Machine Learning hardware and software efforts.					
Title: *Counterintel and Human Intel Equip (CIHEP): Test and Evaluation	3.345	0.350	0.358	0.000	0.358
Articles:	6	-	-	-	-
FY 2022 Plans: - Continue to provide engineering, integration and technical support required for planned CIHEP modernization of the TSCM (Technical Surveillance Countermeasures) equipment and CIHEP Family of Systems (FOS). Acquiring test artifacts to integrate modernized proof of concept equipment for CIHEP next generation Commercial Handheld Satellite Communications Set (CHSCS), verification testing, Expeditionary Office Module - Mobile (EOM-M). (CHSCS Smartphone as EOM-Mobile), and CIHEP FoS Validation testing using use cases and test scenarios. ***FY 2023 Base Plans:*** - Continue to provide engineering, integration and technical support required for planned CIHEP modernization of the TSCM (Technical Surveillance Countermeasures) equipment and CIHEP Family of Systems (FOS). Acquiring test artifacts to integrate modernized proof of concept equipment for CIHEP next generation Commercial Handheld Satellite Communications Set (CHSCS), verification testing, Expeditionary Office Module					

Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/Electronics Warfare Sys*	**Project (Number/Name)** 2272 / *Intel Command and Control (C2) Sys*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
- Mobile (EOM-M). (CHSCS Smartphone as EOM-Mobile), and CIHEP FoS Validation testing using use cases and test scenarios. ***FY 2023 OCO Plans:*** N/A ***FY 2022 to FY 2023 Increase/Decrease Statement:*** No significant change FY 2022 to FY 2023.					
Accomplishments/Planned Programs Subtotals	23.394	31.066	44.891	0.000	44.891

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
• PMC/4747/CESAS: *CESAS*	10.217	38.460	55.847	-	55.847	46.625	21.390	18.530	18.731	Continuing	Continuing
• PMC/4747/IBR: *IBR*	1.494	1.503	1.559	-	1.559	3.617	1.595	1.627	1.660	Continuing	Continuing
• PMC/4747/TSCS: *TSCS*	16.310	13.482	9.876	-	9.876	7.710	9.858	10.083	10.285	Continuing	Continuing
• PMC/4747/ SCICOMMS: *SCI COMMS*	6.669	0.249	5.354	-	5.354	17.181	17.523	17.873	18.230	Continuing	Continuing
• PMC/4747/TC: *TERRESTRIAL COLLECTION*	2.448	0.888	14.891	-	14.891	9.525	13.377	13.603	13.835	Continuing	Continuing
• PMC/4747/CIHEP: *CIHEP*	14.947	4.285	7.395	-	7.395	7.153	6.515	6.647	6.780	Continuing	Continuing
• PMC/4747/MADOSS: *Mobile All-Domain Observation and Sensing Systems*	0.000	0.000	23.870	-	23.870	48.330	5.000	0.000	5.000	Continuing	Continuing

Remarks

D. Acquisition Strategy

(U) CESAS: CESAS II FoS production will consist of COTS and NDI integration into an existing GOTS architecture. Production efforts will be conducted at Naval laboratories. AEWDP production will consist of COTS and NDI integration into an existing GOTS architecture. Production efforts will be conducted by a designated Lead System Integrator. CEMOES production will consist of COTS and NDI integration into GOTS architecture. CEMOES production efforts will be conducted by a designated Lead System Integrator. CEMOES shall be fielded to each Marine Expeditionary Force (MEF) to provide tailorable, realistic, mission-oriented, electromagnetic operational environment to support training and rehearsal at home stations.

Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy		Date: April 2022
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(U) IBR: IBR software upgrades are developed at Naval laboratories and integrated into the system. IBR makes maximum use of COTS, GOTS and NDI with Firm Fixed Price Production.

(U) TSCS: Software upgrades are developed at Naval laboratories and integrated into the system. TSCS makes maximum use of COTS, GOTS, and NDI with Firm Fixed Price Production.

(U) SCI COMMS: SCI COMMS leverages NIWC-LANT support as the Lead System Engineer (LSE), Lead System Integrator (LSI), as well as for Program Management, Technical and Systems Engineering, Test and Evaluation, System Integration and Training, Cyber Security, and Life-cycle Logistics Support.

(U) Terrestrial Collection: Tech refresh for sustainability to ensure operational readiness of the assets, assumes required engineering and logistics refresh funded per additional capability initiative. Makes maximum use of COTS, GOTS and NDI with Firm Fixed Price Production.

(U) Mobile All-Domain Observation and Sensing System (MA-DOSS): MA-DOSS makes maximum use of COTS, GOTS and NDI with Firm Fixed Price Production.

(U) CIHEP: CIHEP makes maximum use of COTS, GOTS and NDI with Firm Fixed Price Production.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy			Date: April 2022
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0206625M / *USMC Intelligence/Electronics Warfare Sys*	Project (Number/Name) 2272 / *Intel Command and Control (C2) Sys*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
CESAS	WR	NIWC-LANT : CHARLESTON, SC	10.779	4.255	Dec 2020	7.906	Dec 2021	2.670	Dec 2022	-		2.670	Continuing	Continuing	Continuing
CESAS	C/FFP	MSCS : Quantico, VA	6.413	0.000		5.507	Apr 2022	5.910	Dec 2022	-		5.910	Continuing	Continuing	Continuing
IBR	MIPR	VARIOUS : VARIOUS	1.635	3.092	Jan 2021	4.586	Mar 2022	3.200	Mar 2023	-		3.200	Continuing	Continuing	Continuing
TSCS	WR	NIWC-LANT : CHARLESTON, SC	12.212	1.191	Dec 2020	3.476	Jan 2022	4.483	Jan 2023	-		4.483	Continuing	Continuing	Continuing
TSCS	C/CPFF	NSMA : Charleston, SC	2.870	1.001	Jun 2021	0.498	Jun 2022	1.193	Jun 2023	-		1.193	Continuing	Continuing	Continuing
TSCS	C/FFP	MSCS : QUANTICO, VA	4.294	3.000	Feb 2021	3.000	Feb 2022	0.000		-		0.000	Continuing	Continuing	Continuing
SCI COMMS	WR	NIWC-Lant : Charleston, SC	0.000	0.000		0.714	Jan 2022	0.730	Jan 2023	-		0.730	Continuing	Continuing	Continuing
Terrestrial Collection	WR	NIWC-LANT : CHARLESTON, SC	4.081	0.000		0.604	Nov 2021	1.269	Nov 2022	-		1.269	Continuing	Continuing	Continuing
Terrestrial Collection	C/CPFF	NIWC-LANT CTR : CHARLESTON, SC	0.176	0.689	Mar 2021	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Terrestrial Collection AI/ML	C/FFP	NIWC-LANT : CHARLESTON, SC	0.000	2.000	Aug 2021	1.500	Mar 2022	0.000		-		0.000	Continuing	Continuing	Continuing
Terrestrial Collection AI/ML	WR	NSWC-CRANE : CRANE,IN	0.000	0.222	Mar 2021	0.150	Mar 2022	0.000	Nov 2022	-		0.000	Continuing	Continuing	Continuing
Terrestrial Collection AI/ML	C/CPFF	NSWC-CRANE CTR : CRANE,IN	0.000	0.277	Mar 2021	0.350	Mar 2022	0.000		-		0.000	Continuing	Continuing	Continuing
Terrestrial Collection AI/ML	WR	DLA : PHILADELPHIA, PA	0.000	0.501	Apr 2021	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Terrestrial Collection	WR	NSWC-DNATC : Virginia Beach ,VA	0.928	0.440	Nov 2020	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Terrestrial Collection	C/CPFF	NSWC-DNA : Virginia Beach ,VA	0.791	0.250	Dec 2020	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
MA-DOSS	WR	NSWC CRANE : CRANE,IN	0.000	0.000		0.000		3.000	Dec 2022	-		3.000	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/Electronics Warfare Sys*	**Project (Number/Name)** 2272 / *Intel Command and Control (C2) Sys*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
MA-DOSS	C/CPFF	NSWC-CRANE : CRANE,IN	0.000	0.000		0.000		14.290	Mar 2023	-		14.290	Continuing	Continuing	Continuing
Prior Years Cumulative Funding	Various	Various : Various	92.683	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
		Subtotal	136.862	16.918		28.291		36.745		-		36.745	Continuing	Continuing	N/A

Remarks

Increase of $8.454M from FY 2022 to FY 2023 reflects the initiation of product development efforts within the Mobile All-Domain Observation and Sensing System (MA-DOSS) FoS.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
CESAS	WR	NIWC-LANT : Charleston, SC	0.050	0.075	Dec 2020	0.075	Dec 2021	2.066	Dec 2022	-		2.066	Continuing	Continuing	Continuing
CESAS	WR	PT MUGU : PT MUGU, CA	0.000	0.000		0.000		3.455	Jan 2023	-		3.455	0.000	3.455	-
SCI COMMS	WR	NIWC-LANT : Charleston, SC	0.285	0.021	Feb 2021	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Prior Years Cumulative Funding	Various	Various : Various	15.066	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
		Subtotal	15.401	0.096		0.075		5.521		-		5.521	Continuing	Continuing	N/A

Remarks

Increase of $5.446M from FY 2022 to FY 2023 reflects moving CESAS Spectrum Services Framework (SSF) from product development to support.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy			Date: April 2022
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0206625M / *USMC Intelligence/Electronics Warfare Sys*	Project (Number/Name) 2272 / *Intel Command and Control (C2) Sys*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
CESAS	WR	NIWC-LANT : CHARLESTON, SC	0.700	0.500	Dec 2020	0.500	Dec 2021	0.710	Dec 2022	-		0.710	Continuing	Continuing	Continuing
TSCS	WR	NIWC-LANT : CHARLESTON, SC	5.192	1.248	Dec 2020	1.570	Jan 2022	1.257	Jan 2023	-		1.257	Continuing	Continuing	Continuing
TSCS	C/IDIQ	NSMA : BOLLING AFB	0.500	0.255	Dec 2020	0.280	Mar 2022	0.300	Mar 2023	-		0.300	Continuing	Continuing	Continuing
TSCS	C/CPFF	MCSC : Quantico, VA	0.000	0.350	Jul 2021	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
SCI COMMS	WR	NIWC-LANT : Charleston,SC	0.000	0.682	Dec 2020	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
CIHEP	WR	NIWC-LANT : CHARLESTON, SC	0.982	0.000		0.350	Mar 2022	0.358	Nov 2022	-		0.358	Continuing	Continuing	Continuing
CIHEP	C/CPFF	NIWC-LANT CTR : CHARLESTON, SC	0.335	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
CIHEP	C/FFP	PNNL : RICHLAND, WA	0.000	3.000	Apr 2021	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
CIHEP	WR	NSWC-Dahlgren : DAHLGREN, VA	1.063	0.345	Nov 2020	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
CIHEP	C/CPFF	NSWC- CTR : DAHLGREN,VA	0.100	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
CIHEP	WR	NSWC-Dahlgren ATR WR : DAHLGREN,VA	0.650	0.000		0.000		0.000		-		0.000	0.000	0.650	-
CIHEP	C/CPFF	NSWC-Dahlgren ATR CTR : DAHLGREN,VA	0.250	0.000		0.000		0.000		-		0.000	0.000	0.250	-
Prior Years Cumulative Funding	Various	Various : Various	20.928	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
		Subtotal	30.700	6.380		2.700		2.625		-		2.625	Continuing	Continuing	N/A

Remarks

Overall decrease of $0.075M from FY 2022 to FY 2023 largely due to Tactical Signal Intelligence (SIGINT) Collection System (TSCS) completion of the Artificial Intelligence/ Machine Learning (AI/ML) algorithm development.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy			Date: April 2022
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	Prior Years	FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	182.963	23.394		31.066		44.891		-		44.891	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/Electronics Warfare Sys*	**Project (Number/Name)** 2272 / *Intel Command and Control (C2) Sys*

CESAS

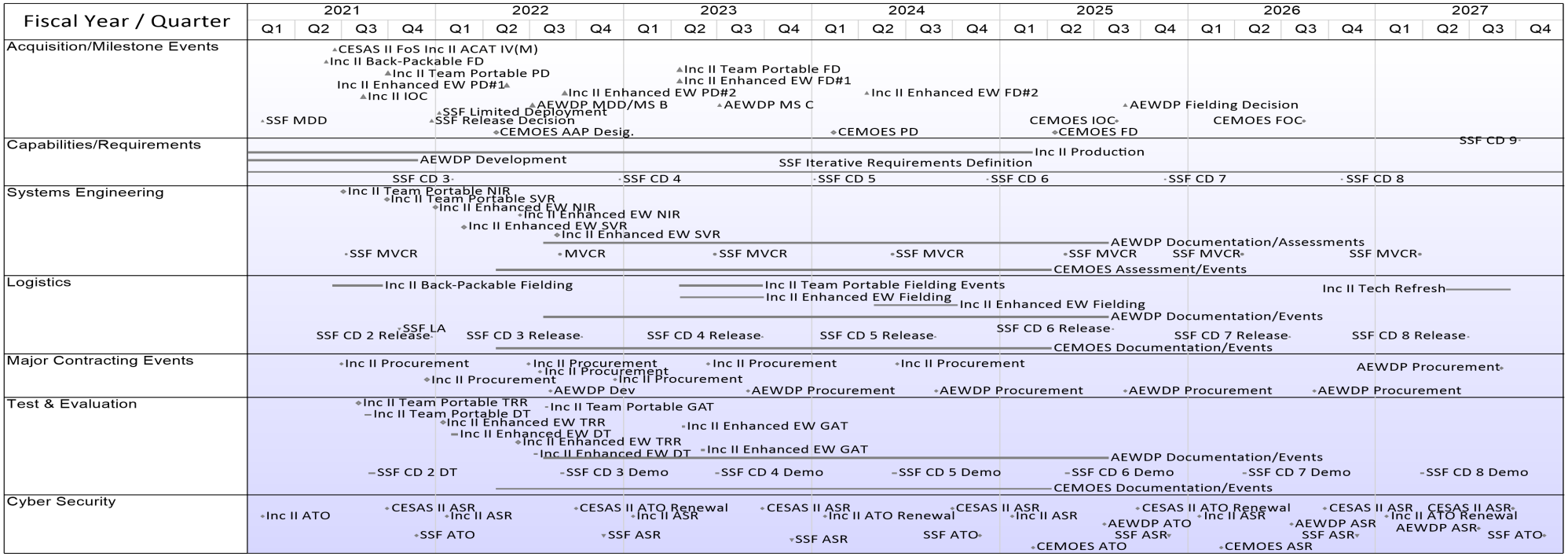

Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/Electronics Warfare Sys*	**Project (Number/Name)** 2272 / *Intel Command and Control (C2) Sys*

IBR

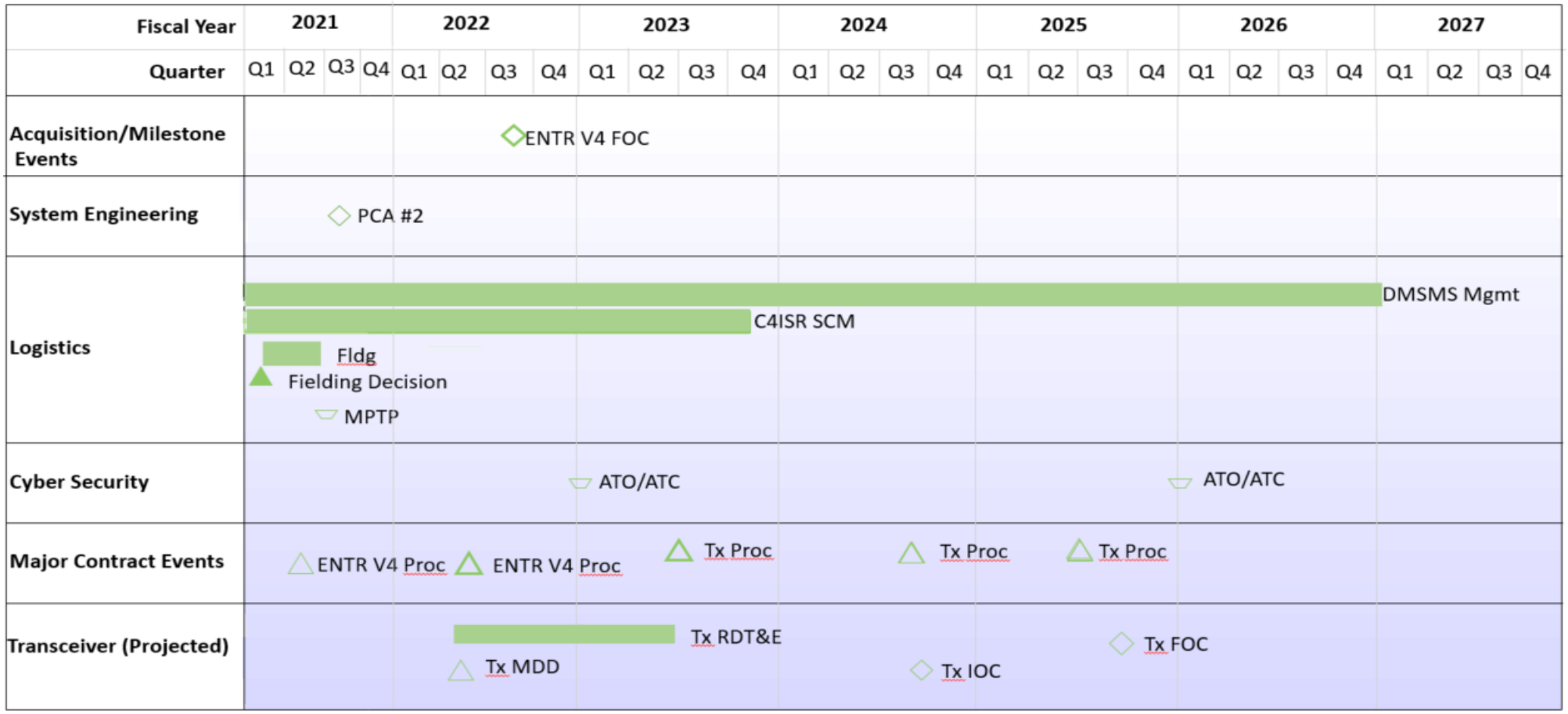

Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/Electronics Warfare Sys*	**Project (Number/Name)** 2272 / *Intel Command and Control (C2) Sys*

TSCS FoS Schedule

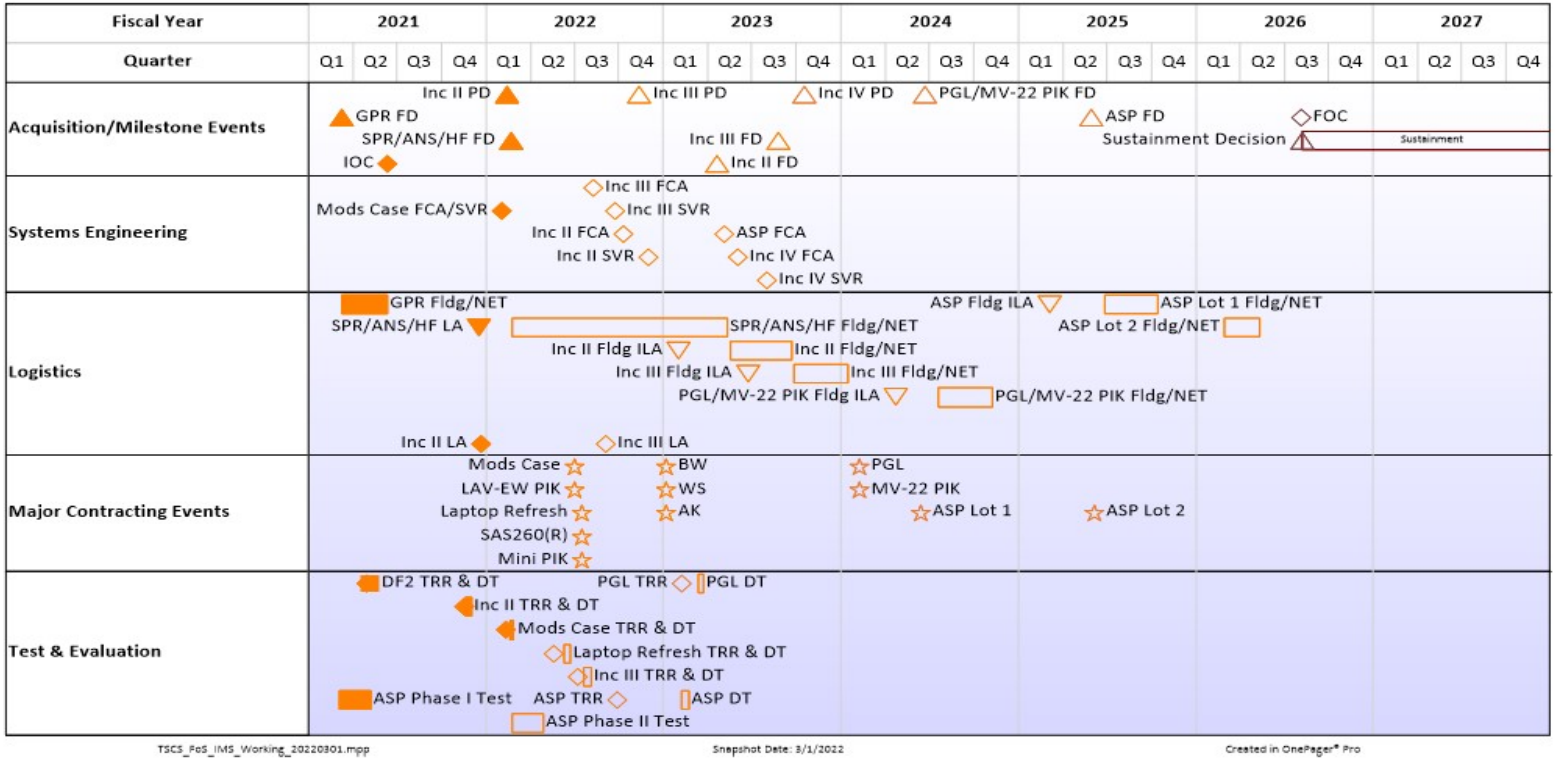

Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/Electronics Warfare Sys*	**Project (Number/Name)** 2272 / *Intel Command and Control (C2) Sys*

Terrestrial Collection Schedule

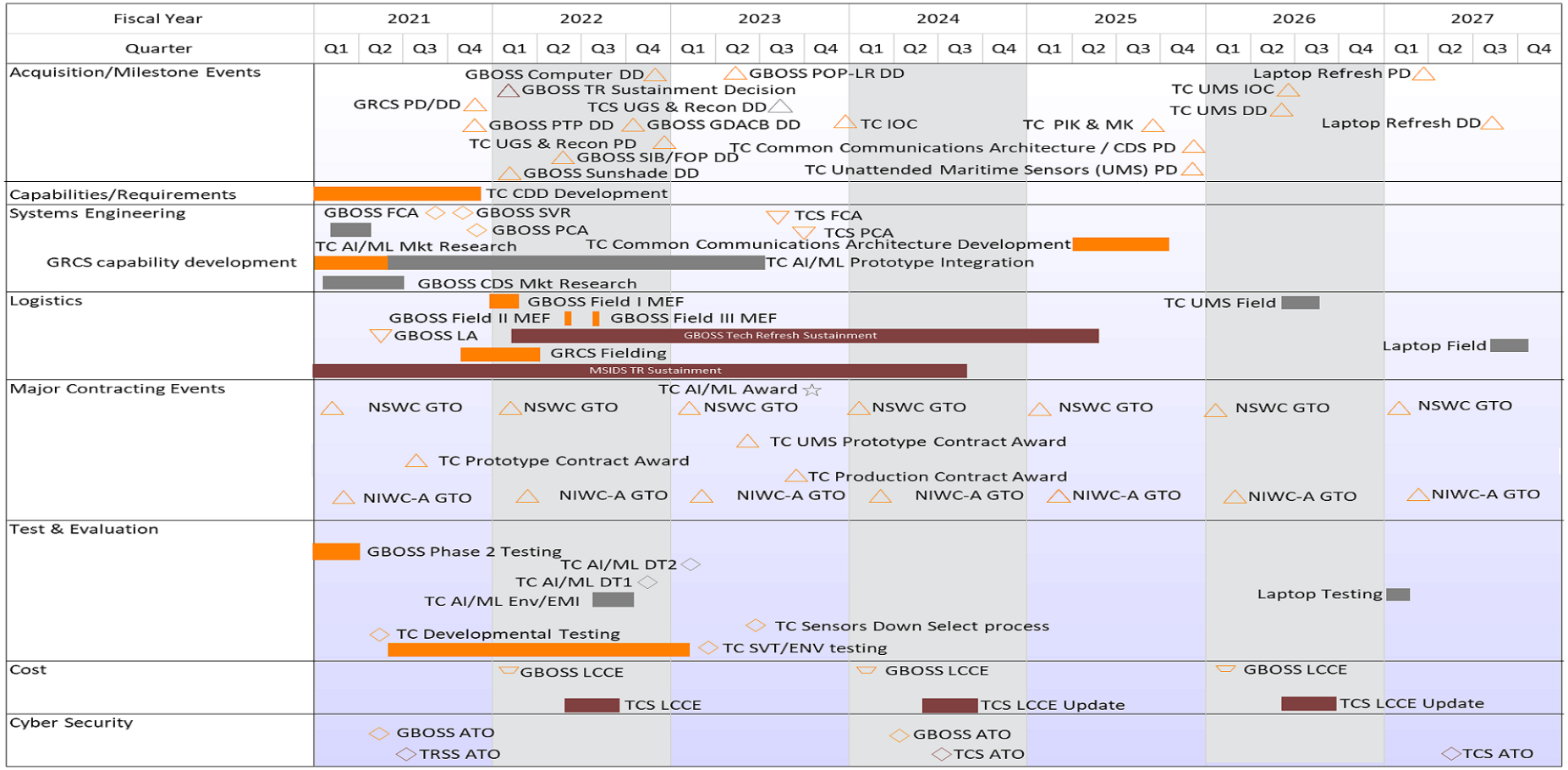

Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/Electronics Warfare Sys*	**Project (Number/Name)** 2272 / *Intel Command and Control (C2) Sys*

MA-DOSS

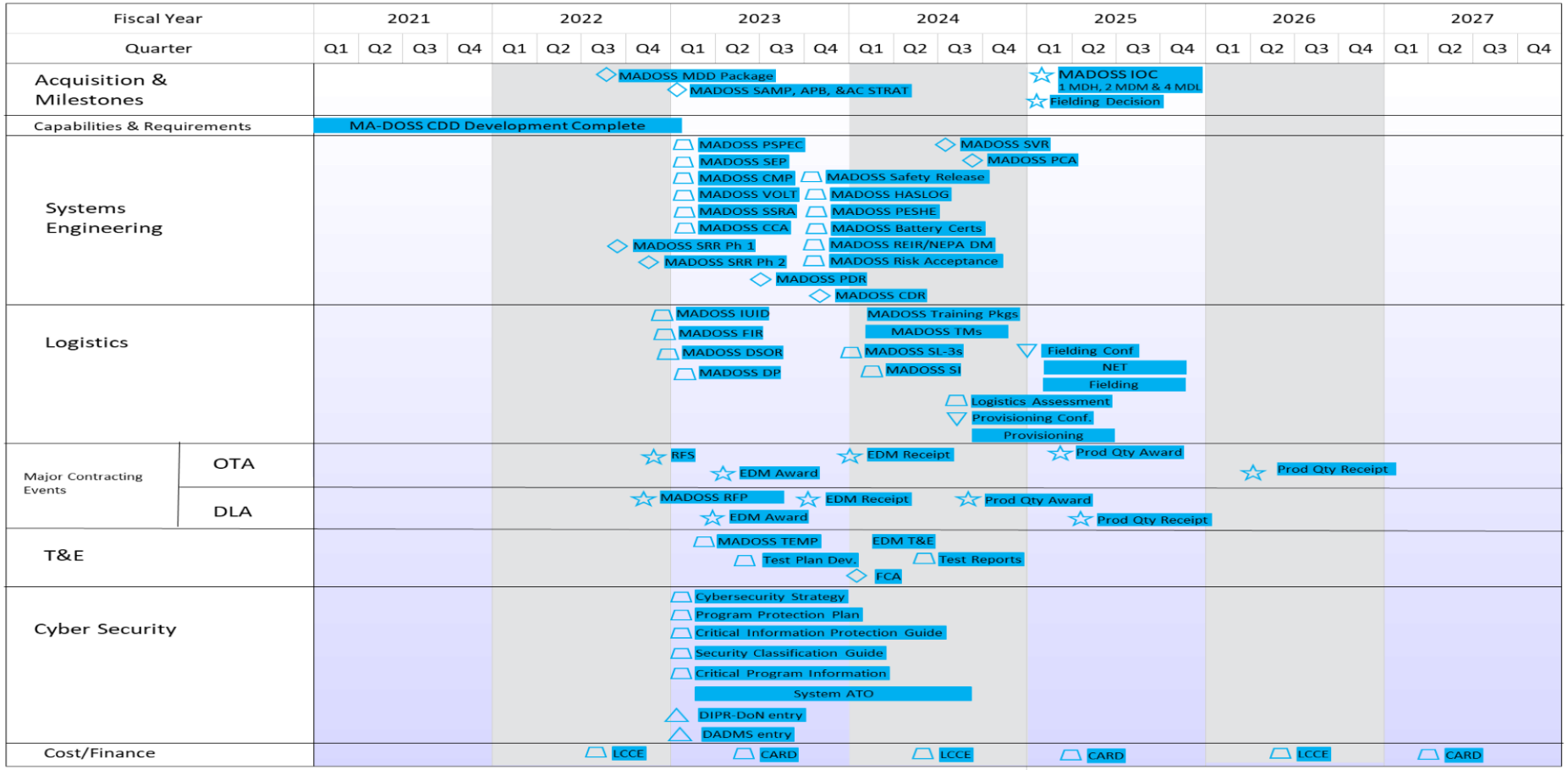

Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/Electronics Warfare Sys*	**Project (Number/Name)** 2272 / *Intel Command and Control (C2) Sys*

Counterintelligence and Human Intelligence Equipment Program

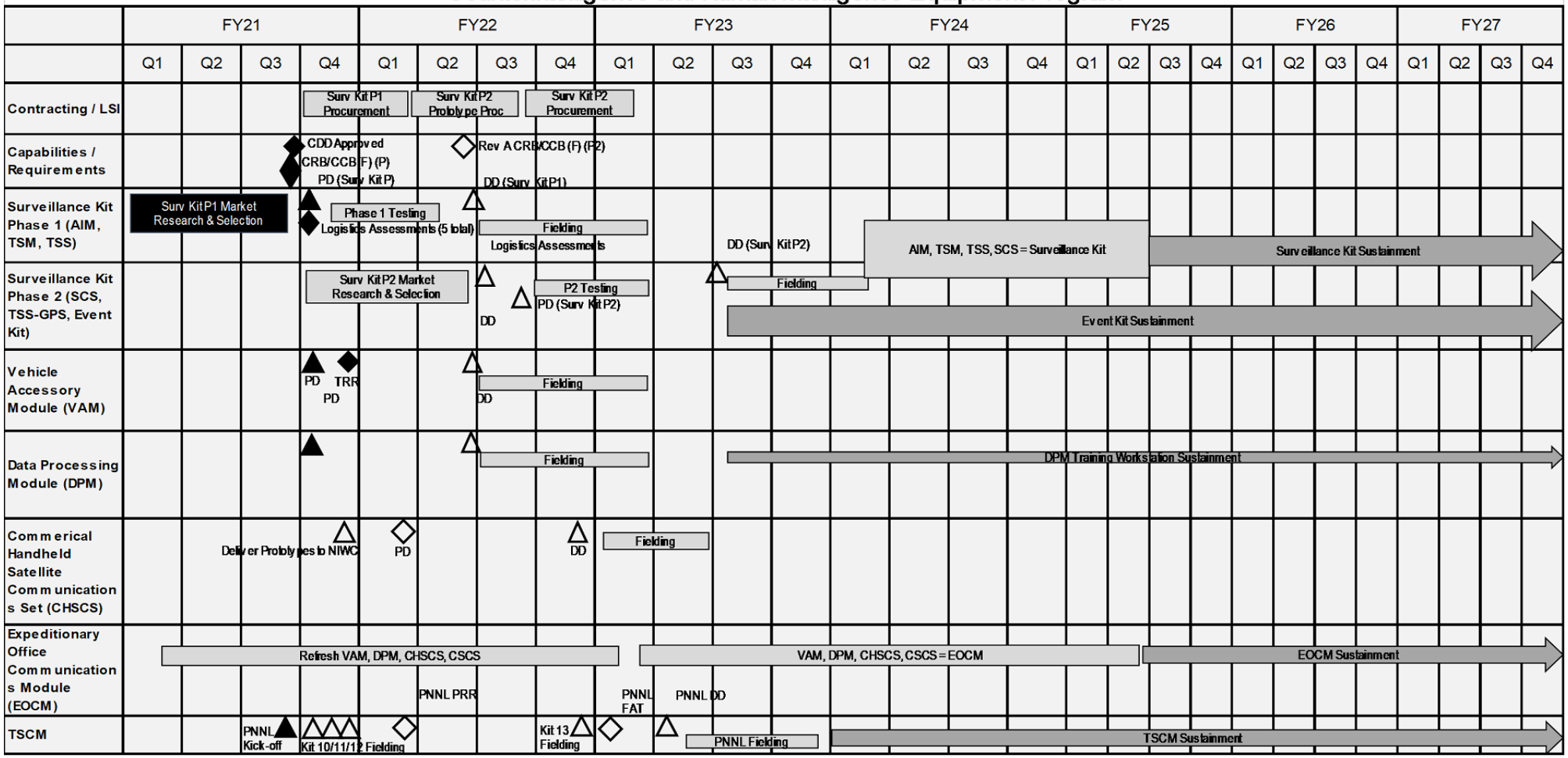

Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/Electronics Warfare Sys*	**Project (Number/Name)** 2272 / *Intel Command and Control (C2) Sys*

SCI Comms FoS Schedule

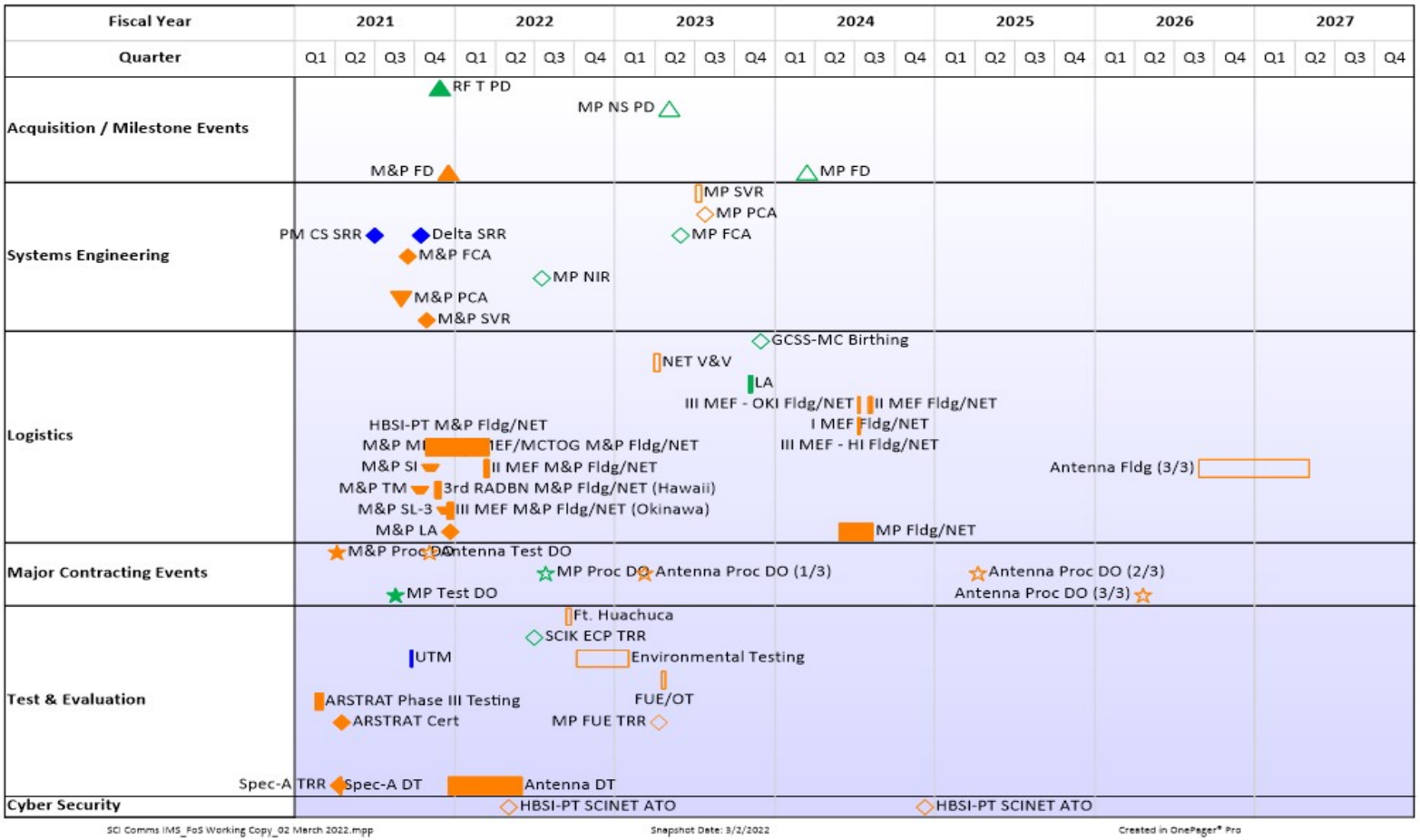

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Navy		Date: April 2022
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Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 2272				
CESAS: CESAS II FoS Back-Packable Fielding Decision	2	2021	2	2021
CESAS: CESAS II FoS Team Portable Procurement Decision	4	2021	4	2021
CESAS: CESAS II FoS Enhanced Electronic Warfare (EW) Procurement Decision #1	2	2022	2	2022
CESAS: CESAS II FoS Enhanced Electronic Warfare (EW) Procurement Decision #2	3	2022	3	2022
CESAS: AEWDP MDD/ MS B	3	2022	3	2022
CESAS: AEWDP MS C	3	2023	3	2023
CESAS: SSF MDD	1	2021	1	2021
CESAS: SSF Limited Deployment Decision	1	2022	1	2022
IBR Fielding Decision (ENTR)	1	2021	1	2021
IBR Transceiver MDD	2	2022	2	2022
TSCS GPR Fielding Decision (Increment 1)	1	2021	1	2021
TSCS Developmental Test (Increment 2)	4	2021	4	2021
TSCS Production Contract Award (Increment 2)	2	2022	2	2022
TSCS Procurement Decision (Increment 2)	1	2022	1	2022
TSCS Procurement Decision (Increment 3)	4	2022	4	2022
TSCS Fielding Decision (Increment 2)	2	2023	2	2023
TSCS Fielding Decision (Increment 3)	3	2023	3	2023
TSCS Procurement Decision (Increment 4)	4	2023	4	2023
SCI COMMS Modem (M&P) Fielding Decision	1	2021	1	2021
SCI COMM Mobility Pack (MP) Procurement Decision	2	2023	2	2023
SCI COMM Mobility Pack (MP) Fielding Decision	1	2024	1	2024

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Navy		Date: April 2022
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	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
SCI COMM Mobility Pack Kits Contract Award	3	2022	3	2022
Terrestrial Collection: GBOSS Advanced Networking Components Delivery Decision	4	2022	4	2022
Terrestrial Collection: Ground Reconaissance Communications System (GRCS) Procurement/Delivery Decision	1	2022	1	2022
Terrestrial Collection: GBOSS Sustainment Decision	1	2022	1	2022
Terrestrial Collection: Sensor Procurement Decision	4	2022	4	2022
Terrestrial Collection: Sensor Delivery Decision	3	2023	3	2023
Terrestrial Collection: IOC	4	2023	4	2023
MADOSS Procurement Decision (MDH)	2	2023	2	2023
CIHEP Surveillance/CI Event Kit Procurement Decision (Phase 1)	3	2021	3	2021
CIHEP Vehicle Accessory Module (VAM) Procurement Decision	4	2021	4	2021
CIHEP Data Processing Module (DPM) Procurement Decision	4	2021	4	2021
CIHEP Commercial Handheld Satellite Communication Set (CHSCS) Procurement Decision	1	2022	1	2022
CIHEP Surveillance/CI Event Kit Delivery Decision (Phase 1)	2	2022	2	2022
CIHEP Vehicle Accessory Module (VAM) Delivery Decision	3	2022	3	2022
CIHEP Data Processing Module (DPM) Delivery Decision	3	2022	3	2022
CIHEP Surveillance/CI Event Kit Procurement Decision (Phase 2)	3	2022	3	2022
CIHEP Commercial Handheld Satellite Communication Set (CHSCS) Delivery Decision	4	2022	4	2022
CIHEP Surveillance/CI Event Kit Delivery Decision (Phase 2)	3	2023	3	2023
CIHEP Expeditionary Office Communication Module Award	3	2023	1	2027

Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy			Date: April 2022
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0206625M / *USMC Intelligence/Electronics Warfare Sys*	Project (Number/Name) 3771 / *Tactical Exploitation of National Capabilities (TENCAP)*	

COST ($ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
3771: *Tactical Exploitation of National Capabilities (TENCAP)*	12.959	6.589	6.629	7.085	-	7.085	7.452	7.533	7.603	7.706	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Tactical Exploitation of National Capabilities (TENCAP) programs provides the innovation and adaptability necessary for the Marine Corps Intelligence Enterprise to support MAGTF operations in increasingly complex environments against technologically savvy adversaries. TENCAP exploits current national reconnaissance systems and programs by examining both technical and operational capabilities, implementing training, and sponsoring concept demonstrations to directly support Marine Corps operating forces. The goal is to pursue technologies which exploit data from national systems to enhance intelligence support to the Marine Air-Ground Task Force (MAGTF) and/or the supported Joint Task Force commander. Additionally, TENCAP supports a persistent, distributed, development, test, and certification environment that addresses critical tactical intelligence capability gaps and delivers sustainable solutions to the operating forces and Marine Corps Systems Command (MSCS) through rapid delivery of emerging technologies.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Title: Tactical Exploitation of National Capabilities (TENCAP): Product Development & Technical Assessments	6.589	6.629	7.085	0.000	7.085
Articles:	-	-	-	-	-
FY 2022 Plans: - Continue to conduct research and development, advanced technology demonstrations, and integration of emerging technologies into the Marine Corps Information Environment Enterprise (MCIEE). - Continue to support the Congressionally mandated TENCAP office and all associated ongoing activities, to include the coordination with national agencies, the intelligence community, research laboratories, private industry, and academia, for exploration of collaborative Research and Development (R&D) efforts to bring evolutionary MCIEE capabilities to the operating forces. - Continue to provide technical assessments and field utility evaluations for the integration of current and emerging capabilities into the tactical decision making process. - Continue to support operational planning and enhance operating force capabilities through the identification and development of advanced technologies for the MCIEE architecture. - Continue training and education efforts by providing the operating forces with supported simulation, visualization, and improved mission planning capabilities.					

Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/Electronics Warfare Sys*	**Project (Number/Name)** 3771 / *Tactical Exploitation of National Capabilities (TENCAP)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
- Continue development, integration, and FUE of innovative national data receive and dissemination capabilities for insertion into MCIEE. ***FY 2023 Base Plans:*** - Continue to conduct research and development, advanced technology demonstrations, and integration of emerging technologies into the Marine Corps Information Environment Enterprise (MCIEE). - Continue to support the Congressionally mandated TENCAP office and all associated ongoing activities, to include the coordination with national agencies, the intelligence community, research laboratories, private industry, and academia, for exploration of collaborative Research and Development (R&D) efforts to bring evolutionary MCIEE capabilities to the operating forces. - Continue to support operational planning and enhance operating force capabilities through the identification and development of advanced technologies for the MCIEE architecture. - Continue training and education efforts by providing the operating forces with supported simulation, visualization, and improved mission planning capabilities. - Continue development, integration, and FUE of innovative national data receive and dissemination capabilities for insertion into MCIEE ***FY 2023 OCO Plans:*** N/A ***FY 2022 to FY 2023 Increase/Decrease Statement:*** The increase $0.456M from FY 2022 to FY 2023 is due to costs associated with FY 2023 lines of effort.					
Accomplishments/Planned Programs Subtotals	6.589	6.629	7.085	0.000	7.085

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/Electronics Warfare Sys*	**Project (Number/Name)** 3771 / *Tactical Exploitation of National Capabilities (TENCAP)*

D. Acquisition Strategy

(U) TENCAP: All work will be led in-house and necessary contractor support will be acquired using existing contracts. Research, test and integrate new technology and conduct advanced technology demonstrations to identify the most appropriate, mature programs for the integration of emerging technologies into the Marine Corps Information Environment Enterprise (MCIEE).

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/Electronics Warfare Sys*	**Project (Number/Name)** 3771 / *Tactical Exploitation of National Capabilities (TENCAP)*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
TENCAP	C/CPFF	DTIC : FT BELVOIR, VA	10.586	2.506	Dec 2020	0.000		7.085	Jan 2023	-		7.085	Continuing	Continuing	Continuing
TENCAP	WR	NIWC-LANT : CHARLESTON, SC	0.450	0.062	Aug 2021	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
TENCAP	WR	NRL : WASHINGTON, DC	0.810	0.795	May 2021	0.870	Apr 2022	0.000		-		0.000	0.000	2.475	-
TENCAP	MIPR	AFRL : ROME, NY	0.000	0.867	Sep 2021	5.759	May 2022	0.000		-		0.000	0.000	6.626	-
TENCAP	WR	NIWC-PAC : SAN DIEGO, CA	0.000	0.885	Apr 2021	0.000		0.000		-		0.000	0.000	0.885	-
TENCAP	C/CPFF	HQ USSOCOM : TAMPA, FL	0.000	0.594	Jun 2021	0.000		0.000		-		0.000	0.000	0.594	-
TENCAP	C/FFP	NSMA : JBAB, DC	0.000	0.880	Apr 2022	0.000		0.000		-		0.000	0.000	0.880	-
		Subtotal	11.846	6.589		6.629		7.085		-		7.085	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
TENCAP	FFRDC	US ARMY CECOM : ABERDEEN PROVING GROUND, MD	1.113	0.000		0.000		0.000		-		0.000	0.000	1.113	-
		Subtotal	1.113	0.000		0.000		0.000		-		0.000	0.000	1.113	N/A

	Prior Years	FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	12.959	6.589		6.629		7.085		-		7.085	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/Electronics Warfare Sys*	**Project (Number/Name)** 3771 / *Tactical Exploitation of National Capabilities (TENCAP)*

	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
	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
Proj 3771																												
Continued RDTEN of new and emerging tech into MCIEE																												

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/Electronics Warfare Sys*	**Project (Number/Name)** 3771 / *Tactical Exploitation of National Capabilities (TENCAP)*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 3771				
Continued RDTEN of new and emerging tech into MCIEE	1	2021	4	2026