Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy											Date: February 2018	
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 2017**	**FY 2018**	**FY 2019 Base**	**FY 2019 OCO**	**FY 2019 Total**	**FY 2020**	**FY 2021**	**FY 2022**	**FY 2023**	**Cost To Complete**	**Total Cost**
Total Program Element	84.168	22.978	30.886	39.976	-	39.976	33.554	31.510	26.885	27.121	Continuing	Continuing
2272: *Intel Command and Control (C2) Sys*	84.168	22.978	30.886	33.501	-	33.501	27.070	24.916	20.154	20.252	Continuing	Continuing
3771: *Tactical Exploitation of National Capabilities (TENCAP)*	0.000	0.000	0.000	6.475	-	6.475	6.484	6.594	6.731	6.869	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 reconnaissance, surveillance, and target acquisition resources and the timely planning and processing of all-source intelligence. It ensures that all-source tactical intelligence is tailored to meet specific mission requirements. The systems collect and convert raw intelligence data on the battlefield into processed information and deliver the processed products to the Intelligence Analysis Systems (IAS) for analysis and dissemination.

B. Program Change Summary ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	24.187	30.886	33.131	-	33.131
Current President's Budget	22.978	30.886	39.976	-	39.976
Total Adjustments	-1.209	0.000	6.845	-	6.845
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.011	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Program Adjustments	-1.216	0.000	7.238	-	7.238
• Rate/Misc Adjustments	0.000	0.000	-0.393	-	-0.393
• Congressional General Reductions Adjustments	-0.004	-	-	-	-

Change Summary Explanation

The FY 2019 funding request was reduced by ($.608) million to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.

Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy	Date: February 2018
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*

Increase of $6.845M in FY19 from PB18 reflects funding profile adjustments to align the acquisition phase for the following programs: Communication Emitter Sensing and Attacking System (CESAS), Tactical Signal Intelligence (SIGINT) Collection System (TSCS), Intelligence Analysis System (IAS) and Joint Worldwide Intelligence Communications System (JWICS).

Increase $9.09M between FY18 and FY19 provides funding for the following major Intelligence Command and Control efforts: CESAS development of Electromagnetic Spectrum Operations Range (EMSOR) and Spectrum Services Framework (SSF); TSCS development and integration of Silk Thread and Platform Integration Kit, IAS integration, testing and evaluation of Distributed Common Ground/Surface System (DCGS) Integrated Backbone into the IAS Family of Systems; Joint Worldwide Intelligence Communications System (JWICS) development of Tactical JWICS kits; and TCAC research and development in support of next hardware refresh.

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy											Date: February 2018	
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 2017**	**FY 2018**	**FY 2019 Base**	**FY 2019 OCO**	**FY 2019 Total**	**FY 2020**	**FY 2021**	**FY 2022**	**FY 2023**	**Cost To Complete**	**Total Cost**
2272: *Intel Command and Control (C2) Sys*	84.168	22.978	30.886	33.501	-	33.501	27.070	24.916	20.154	20.252	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

Beginning in FY19, TENCAP funding has been realigned from project 2272 to 3771, Tactical Exploitation of National Capabilities. Realignment of efforts to new BLIs in FY 19 and beyond reflects USMC Program Management Office (PMO) reorganization to improve support of USMC OPFOR.

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 reconnaissance, surveillance, and target acquisition resources and the timely planning and processing of all-source intelligence through all phases of operation. It ensures that all-source tactical intelligence is tailored to meet specific mission requirements. The systems below collect and convert raw intelligence data on the battlefield into processed information and deliver the processed products to the Intelligence Analysis Systems (IAS) for analysis and dissemination.

Tactical Exploitation of National Capabilities (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. TENCAP will be funded in Project 3771 in FY19.

Terrestrial Collection provides a tactical ground sensor FoS that are organic to the MAGTF and facilitate near-real time PISR sensing to MAGTF decision-makers and users. Sensors are networked to the maximum extent possible to enable the sharing of standard data and information to support all six Marine Corps warfighting functions (C2,Intelligence, Operations, Protection, Fires, and Maneuver) with both targeting and battlespace awareness. An array of sensor delivery methods, and a variety of sensor characteristics enable the MAGTF to sense air (low altitude), land (surface, underground), sea (surface and subsurface), environmental effects (weather), and man-made objects (e.g. inside buildings) to determine threat location, disposition, movement and direction. Ground Based Operational Surveillance System (G-BOSS), MAGTF Secondary Imagery Dissemination System (MSIDS) and Tactical Remote Sensor System (TRSS) transition to Terrestrial Collection in FY19.

Ground Based Operational Surveillance System (G-BOSS) is an expeditionary, ground-based, self-contained, multi-spectral sensor-oriented, persistent surveillance system used to observe, collect, detect, identify, classify, track, and report on contacts, objects of interest, and assessed threats twenty-four hours a day utilizing a fused video and sensor data display. System variants will allow mobility, transportability, scalability and modularity, and will be capable of independent employment or as part of a network. All G-BOSS variants may be integrated into mutually supporting, closed networks. The G-BOSS variants are: G-BOSS Light (GBL): A tripod-mounted variant that provides short-range surveillance support. It is employed when surveillance support is required, but location and operational requirements are impractical to employ either of the two other variants. G-BOSS Medium (GBM): A trailer-mounted variant that provides longer range surveillance and is transported using a light trailer and tactical vehicle while in support of mobile combat operations, convoy security, temporary security operations, etc. G-BOSS Heavy (GBH): The 80-foot tall tower

configuration, Heavy variant provides surveillance support of a more permanent nature. It is employed when operations are static, displacements are few, and longer surveillance ranges are desired. G-BOSS transitions to Terrestrial Collection in FY19.

MAGTF Secondary Imagery Dissemination System (MSIDS) provides organic tactical digital imagery collection, transmission and receiving capability to the MAGTF Commander. MSIDS is comprised of components necessary to enable Marines to capture, manipulate, annotate, transmit or receive images in Near Real Time (NRT), internally with subordinate commands that are widely separated throughout the area of operations and externally with higher and adjacent commands. The MSIDS capability resides with the Marine Air-Ground Task Force (MAGTF) Intelligence sections and Ground Reconnaissance Battalions, Infantry Battalion Scout Sniper Platoons and Marine Corps Forces Special Operations Command. The MSIDS Family of Systems (FoS) extends the digital imaging capability to all echelons within the Marine Expeditionary Force (MEF), down to and including battalions and squadrons. Captured images can be forwarded throughout the MAGTF through the use of Base Station Workstation/Communication Interface (BW/CI), Outstation Workstation/Communication Interface (OW/CI) or existing C4ISR architecture. Images can also be transmitted to DCGS-MC for more detailed processing and analysis. The Video Exploitation Workstation (VEW) is used to import, manipulate, annotate still and video imagery, create intelligence products, lift still frames from video, view multi-format TV signals and provide a field briefing capability. MSIDS transitions to Terrestrial Collection in FY19.

Tactical Remote Sensor System (TRSS) provides all-weather direction, location determination, targeting, and tactical indications and warning of enemy activity in the MAGTF Commander's Area of Interest. Upgrades to the system provide imagers with a remotely changeable field of view; more reliable, networked communications that provide higher-quality imagery; and smaller, power-efficient, magnetic detectors with improved target-detection range. The cumulative impact of these changes enable the system to provide higher discrimination of threats in a more reliable and timely manner. As the program proceeds, the upgrade of individual system components will continue to occur as needed as threats, technologies, and system requirements evolve. Enhancements to the current baseline will improve sensor monitoring systems and include a magnetic sensor upgrade. It will also provide for a Common Sensor Radio, self-networking communications for sensors and retransmission devices. TRSS transitions to Terrestrial Collection in FY19.

PERSISTENT INTELLIGENCE, SURVEILLANCE AND RECONNAISSANCE (PISR) GROUND COLLECTION SYSTEMS: PISR is a comprehensive strategy that synchronizes organic and external ISR assets in support of MAGTF operations. This capability involves sensing the operational environment through a variety of systems, from satellites overhead to reconnaissance Marines on the ground. PISR incorporates terrestrial sensing capability from the following ground collection systems.

Communication Emitter Sensing and Attacking System (CESAS) is the sole USMC high power, man-packable, and ground mobile Electronic Attack (EA) asset. CESAS supports the MAGTF Commander in the execution of his Electronic Warfare (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 EA 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.

Counter Intelligence and Human Intelligence (CI/HUMINT) Equipment Program (CIHEP) provides each Marine CI/HUMINT Company within 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 and HUMINT activities, to include Technical Surveillance Countermeasures (TSCM) operations. TSCM 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 ten modules of commercial and government off the-shelf equipment. Different components are selected for refresh each year in order to 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.

Tactical Signal Intelligence (SIGINT) Collection System (TSCS) provides modular, lightweight and team/man transportable/portable systems and components which provide signal intercept, collection, Direction-Finding (DF), reporting and collection management capability to the MAGTF Commander. It provides the MAGTF Commander with a modular and scalable carry on/carry off suite of equipment which exploits information from more technically advanced target sets. TSCS uses rapid technology insertion processes and procedures to incorporate advanced SIGINT technology to allow the MAGTF Commander to maintain technological parity with the adversary.

PROCESSING, EXPLOITATION, ANALYSIS AND PRODUCTION SYSTEMS: Processing, exploitation, analysis and production actions of the Intelligence process enables Marines to understand the all-source information/data revealed by PISR. The Distributed Common Ground System - Marine Corps (DCGS-MC) Enterprise (BLI 4767) will serve as the Marine Corps ISR Enterprise (MCISRE) backbone, migrating select capabilities into a single, integrated, net-centric baseline via clearly defined capability drops.

Intelligence Analysis System (IAS) FoS is the All-Source Fusion Center that provides interoperable, scalable, semi-automated capabilities to receive, analyze, display, and disseminate all-source intelligence, including imagery, to support timely, tactical decision-making across the MAGTF. IAS will transition to DCGS-MC as the All Source Fusion capability.

Technical Control Analysis Center (TCAC) Family of systems consists of the AN/UYQ-83 TCAC Remote Analysis Workstation (RAWS), AN/MYQ-9 TCAC Transportable Workstation, and Cross Domain Solution (CDS), and is the focal point of Radio Battalions (RADBN), Marine Corps Forces Special Operations Command (MARFORSOC), and Fixed Wing Marine EA Squadron (VMAQ) SIGINT operations. TCAC automatically collects, stores, retrieves and plays back digital audio signals, and fuses and analyzes SIGINT data from tactical, theater and national collectors and databases for dissemination to tactical commanders. TCAC provides SIGINT analysis applications to deployable MAGTF units capable of directing and managing the technical and operational functions of other RADBN SIGINT/EW assets. TCAC provides termination of national, theater and tactical data networks for data exchange with tactical SIGINT/EW assets, the IAS and national databases. TCAC will enable the transfer of USMC tactical SIGINT collection and analytical data into the Real-Time Regional Gateway (RT-RG) and also by producing DCGS-MC Integrated Backbone (DIB) enabled products that will be discoverable by any DCGS enabled Marine. The system provides ground processing of EW information, including EW

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
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*

Support and EA data collected by the RADBN and WMAQ-EA-6B aircraft. The system is capable of correlating, fusing, and evaluating radar emitter identification and location data from the EA-6B with other National and theater sources. TCAC will transition to DCGS-MC as the Signals Intelligence capability.

INTELLIGENCE DISSEMINATION AND UTILIZATION (IDU) SYSTEMS: The IDU capability set performs the dissemination and integration functions of the Intelligence process. Dissemination connects the Intelligence product to the Commander who "operationalizes" these products through informed decisions.

The Intelligence Broadcast Receiver (IBR) acquisition program is a family of terminals that conform to the Department of Defense (DoD) Integrated Broadcast Service (IBS) objectives of interoperability and commonality to receive and process near-real time multi-intelligence data. The IBR family of terminals provide MAGTF Commanders with the only direct access to IBS data via UHF Satellite Communications (SATCOM) broadcast channels. The IBR program is an evolving, multi-Service architecture designed to keep pace with Commanders' targeting and information requirements and conforms to the DoD IBS objectives of interoperability and commonality, which is currently accomplished using the Universal Serial Bus (USB) Embedded National Tactical Receiver (ENTR). The ENTR Version 4 (V4) will supplement and replace the USB ENTR which is no longer in production. The ENTR V4 provides a 50% weight reduction and doubles the life expectancy of the battery compared to the USB ENTR. The IBR family of terminals receive Blue Force Tracker data, which is a key element in developing and maintaining situational awareness as it relates to the common threat/common operating picture. The IBR provides NRT strategic, theater, and tactical sensor-to-shooter connectivity as well as NRT Theater Missile Defense indications and warnings. Additionally, the IBR provides connectivity to IBS Common Interactive Broadcast and IBS Alternative Path.

Joint Worldwide Intelligence Communications System (JWICS) is the Top Secret Sensitive Compartmented Information (TS/SCI) portion of the Defense Information System Network. It incorporates advanced networking technologies that permit point-to-point or multi-point information exchange involving voice, text, graphics, data and video teleconferencing within the DoD Intelligence Community. JWICS provides Marine Forces with special intelligence that significantly enhances the detail and quality of intelligence support that intelligence organizations provide to operating forces.

Sensitive Compartmented Information Communications (SCI COMMS) is a Super-High Frequency multi-band satellite communications Family of Systems (FoS), that provides a tactical capability at the Top Secret (TS)/SCI and Secret Collateral levels lo USMC intelligence units. The SCI COMMS FoS is the only deployable communications system that is dedicated for TS/SCIdata and voice communications that can receive, transmit and disseminate bulk data and imagery products to and from national tactical intelligence sources. The FoS consists of palletized, team level, and man-packable systems - TROJAN SPIRIT, High Bandwidth Special Intelligence-Palletized Terminal (HBSI-PT), and Sensitive Compartmented Intelligence Kit (SCIK) - which provide USMC tactical commanders with high-capacity, near-real-time access to intelligence from national agencies, joint, coalition, service activities, intelligence producers, and other tactical units via connectivity to Joint Worldwide Intelligence Communications System, National Security Agency (NSA) Network, coalition networks, and Secret Internet Protocol Router Network.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: *Communication Emitter Sensing and Attacking System (CESAS): Product Development	0.696	3.294	6.383	0.000	6.383
Articles:	-	-	-	-	-
FY 2018 Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
-Initiate planning to transition CESAS Next Generation advanced digital payload/electronic warfare technology. Provide required hardware/software modifications to CESAS II/RREMPEAS and hardware modifications to HMMWV PIK to enhance capability via ECPs. Initiate hardware/software capability enhancements including CESAS Next Generation advanced digital payload/electronic warfare technology. ***FY 2019 Base Plans:*** -Initiate development of Electromagnetic Spectrum Operations Range (EMSOR), Spectrum Services Framework (SSF), Joint Light Tactical Vehicle (JLTV) Platform Integration Kit (PIK) and transition to CESAS Next Generation advanced digital payload/electronic warfare technology. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** $3.089M increase from FY18 to FY19 will initiate development of Electromagnetic Spectrum Operations Range (EMSOR), Spectrum Services Framework (SSF), Joint Light Tactical Vehicle (JLTV) Platform Integration Kit (PIK), and transition to CESAS Next Generation advanced digital payload/electronic warfare technology.					
Title: *Communication Emitter Sensing and Attacking System (CESAS): Support	0.017	0.025	0.039	0.000	0.039
Articles:	-	-	-	-	-
FY 2018 Plans: Continue to provide program support for required hardware/software modifications to CESAS II/RREMPEAS/ HMMWV PIK. Initiate program support for required modifications to CESAS Next Generation advanced digital payload/ electronic warfare technology. ***FY 2019 Base Plans:*** Continue to provide program support for required hardware/software modifications to CESAS II/RREMPEAS/ CESAS Next Generation advanced digital payload/electronic warfare technology and hardware modifications to HMMWV PIK to enhance capability via Engineering Change Proposals (ECPs). ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:***					

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
No significant change from FY 2018 to FY 2019.					
Title: *Counterintel and Human Intel Equip (CIHEP): Test and Evaluation	0.385	0.325	0.332	0.000	0.332
Articles:	-	-	-	-	-
FY 2018 Plans: - Continues to provide engineering, integration and technical support required for planned CIHEP modernization of the TSCM (Tactical Surveillance Counter Measures) equipment and CIHEP Family of Systems (FOS). ***FY 2019 Base Plans:*** - Continue to provide engineering, integration and technical support required for planned CIHEP modernization of the TSCM (Tactical Surveillance Counter Measures) equipment and CIHEP Family of Systems (FOS). ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** No significant change from FY 2018 to FY 2019.					
Title: *Counterintel and Human Intel Equip (CIHEP): Product Development	0.300	0.000	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2018 Plans: N/A ***FY 2019 Base Plans:*** N/A ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** No significant change from FY 2018 to FY 2019.					
Title: *Intelligence Analysis System (IAS): Product Development	2.690	4.862	3.905	0.000	3.905
Articles:	-	-	-	-	-
FY 2018 Plans: - Continue integration, system testing, and evaluation of advanced analytic technologies into the Intelligence Analysis					

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
System (IAS) Family of Systems (FoS). - Initiate integration, system testing, and evaluation of Intelligence Servers into the IAS FoS. - Initiate integration, system testing, and evaluation of DCGS Integrated Backbone into the IAS FoS. - Complete integration, system testing, and evaluation of the Global Command & Control System - Joint (GCCS-J) 6.0 into the IAS FoS. ***FY 2019 Base Plans:*** - Continue integration, system testing, and evaluation of Intelligence Servers into the IAS FoS. - Continue integration, system testing, and evaluation of advanced analytic technologies into the Intelligence Analysis System (IAS) Family of Systems (FoS). - Complete integration, system testing, and evaluation of DCGS Integrated Backbone into the IAS FoS. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** Decrease of $0.957M from FY 18 to FY 19 reflects the completion of the DCGS Integrated Backbone into the IAS FoS.					
Title: *Intelligence Analysis System (IAS): Support	1.182	0.966	0.567	0.000	0.567
Articles:	-	-	-	-	-
FY 2018 Plans: - Continue program management support for integration of advanced analytics tools into the IAS FoS software baseline. - Initiate program management support for integration and testing of Intelligence Servers into the IAS FoS. - Initiate integration, system testing, and evaluation of DCGS Integrated Backbone into the IAS FoS. - Complete program management support for integration and testing of GCCS-J 6.0 in the IAS FoS. ***FY 2019 Base Plans:*** - Continue program management support for integration of advanced analytics tools into the IAS FoS software baseline. - Continue program management support for integration and testing of Intelligence Servers into the IAS FoS. - Continue integration, system testing, and evaluation of DCGS Integrated Backbone into the IAS FoS. ***FY 2019 OCO Plans:***					

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** Decrease of $0.399M from FY 18 to FY 19 reflects the completion of the integration and testing of GCCS-J 6.0 in the IAS FoS.					
Title: *Intelligence Analysis System (IAS): Test and Evaluation ***Articles:*** ***FY 2018 Plans:*** - Continue support for integration of advanced analytics tools into the IAS FoS software baseline. - Initiate support for integration and testing of Intelligence Servers into the IAS FoS. - Initiate integration, system testing, and evaluation of DCGS Integrated Backbone into the IAS FoS. - Complete support for integration and testing of GCS-J 6.0 in the IAS FoS. ***FY 2019 Base Plans:*** - Continue support for integration of advanced analytics tools into the IAS FoS software baseline. - Continue support for integration and testing of Intelligence Servers into the IAS FoS. - Continue integration, system testing, and evaluation of DCGS Integrated Backbone into the IAS FoS. - Initiate testing and evaluation for the Cross Domain Solution. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** Increase of $0.739M from FY 18 to FY 19 supports integration and testing of the Tier I servers and Cross Domain Solution for the IAS FoS.	0.299 -	0.961 -	1.700 -	0.000 -	1.700 -
Title: *Intelligence Broadcast Receiver (IBR): Product Development ***Articles:*** ***FY 2018 Plans:*** - Continue required interoperability software testing support for Joint Integration Test Command certification for Tactical Receive Segment (TRS). - Continue ENTR system integration and test support, CIB upgrade and system optimization support, and CIB operational testing.	0.110 -	0.474 -	0.476 -	0.000 -	0.476 -

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
- Initiate the Networking-On-The-Move (NOTM) integration and Integrated Broadcast System (IBS) server producer capability. ***FY 2019 Base Plans:*** - Continue ENTR system integration and test support, CIB upgrade and system optimization support, and CIB operational testing. - Continue the Networking-On-The-Move (NOTM) integration and Integrated Broadcast System (IBS) server producer capability. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** No significant change from FY 2018 to FY 2019.					
Title: *SCI COMMS: Product Development	0.017	0.168	0.395	0.000	0.395
Articles:	-	-	-	-	-
FY 2018 Plans: - Initiate efforts to procure new test assets, such as controlled cryptographic items, to support security-based product improvements and ECPs. ***FY 2019 Base Plans:*** - Continue efforts to develop new test assets, such as modems, monitors, and control devices to support security-based product improvements and ECPs ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** No significant change from FY 2018 to FY 2019.					
Title: *SCI COMMS: Support	0.000	0.110	0.113	0.000	0.113
Articles:	-	-	-	-	-
FY 2018 Plans: - Initiate development of ECPs for end-of-life/end-of-sale equipment and modernization efforts. ***FY 2019 Base Plans:***					

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
- Continue development of ECPs for end-of-life/end-of-sale equipment and modernization efforts for security-based products. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** No significant change from FY 2018 to FY 2019.					
Title: *SCI COMMS: Test and Evaluation ***Articles:*** ***FY 2018 Plans:*** - Initiate test and evaluation efforts which support engineering change proposals (ECPs) such as cryptographic item refresh. ***FY 2019 Base Plans:*** - Continue test and evaluation efforts which support engineering change proposals (ECPs) such as modems and monitor control devices. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** Increase of $0.125M from FY18 to FY19 supports test and evaluation activities associated with security-based product improvements such as Controlled Cryptographic Items (CCI), Network Package Netflow, and Coalition Network.	0.050 -	0.073 -	0.198 -	0.000 -	0.198 -
Title: *Tactical Exploitation of National Capabilities (TENCAP): Product Development & Technical Assessments ***Articles:*** ***Description:*** Tactical Exploitation of National Capabilities (TENCAP): Decrease of $6.448M from FY18 to FY19 as program transitions to Project C3771. ***FY 2018 Plans:*** - Continue to conduct research and development, advanced technology demonstrations, and integration of emerging technologies into the Marine Corps Intelligence, Surveillance, and Reconnaissance Enterprise (MCISRE).	4.115 -	6.448 -	0.000 -	0.000 -	0.000 -

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
- 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 Science and Technology (S&T)/R&D efforts to bring evolutionary intelligence capabilities to the operating forces. - Continue to provide technical assessments and field utility evaluations for the integration of current and emerging intelligence 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 MCISRE architecture. - Continue training and education efforts by providing the operating forces with supported simulation, visualization, and improved mission planning capabilities. - Initiate efforts to provide transition support to Rapid Reliable Targeting (RRT). - Initiate efforts for the development of Process, Exploitation, and Dissemination (PED) capability to the Command Level Intelligence Cell (CLIC) ***FY 2019 Base Plans:*** Refer to Project: 3771; TENCAP will be funded in 3771 in FY19. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** Decrease of $6.448M from FY18 to FY19 as program transitions to Project C3771.					
Title: *Tactical Signal Intelligence (SIGINT) Collection System (TSCS): Product Development	3.320	2.403	5.330	0.000	5.330
Articles:	-	-	-	-	-
FY 2018 Plans: - Continue software development and integration for the software defined receivers (SDRs). - Continue firmware upgrades to software defined receivers Field Programmable Gate Array (FPGA). - Continue development of the Aviation PIK. - Continue development of the TSCS Modular Case. - Initiate market research for next generation Software Defined Receivers, Antennas, and TSCS Body Worn System. ***FY 2019 Base Plans:*** - Continue software development and integration for the software defined receivers.					

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
- Continue firmware upgrades to software defined receivers Field Programmable Gate Array (FPGA). - Continue development of the Aviation PIK. - Continue development of the TSCS Modular Case. - Initiate development and integration of advanced digital payload/electronic warfare techonolgy and Platform Integration Kit. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** Increase of $2.927M from FY18 to FY19 initiates development and integration of advanced digital payload/ electronic warfare technology and Platform Integration Kits.					
Title: *Tactical Signal Intelligence (SIGINT) Collection System (TSCS): Support ***Articles:***	0.033 -	0.035 -	0.000 -	0.000 -	0.000 -
FY 2018 Plans: - Continue to provide program support and management for ongoing developmental testing, engineering drawings, environmental testing for server sleeves. ***FY 2019 Base Plans:*** N/A ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** No significant change from FY 2018 to FY 2019.					
Title: *Tactical Signal Intelligence (SIGINT) Collection System (TSCS): Test and Evaluation ***Articles:***	1.957 -	2.720 -	2.520 -	0.000 -	2.520 -
FY 2018 Plans: - Initiate TSCS Modular Case testing. - Conduct development testing on software baseline. - Initiate testing on the Advanced Signal Processor. ***FY 2019 Base Plans:*** - Continue TSCS Modular Case testing.					

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
- Continue development testing on software baseline. - Continue integration testing with software defined radios and TSCS Modular Case testing. - Continue testing on the Advanced Signal Processor. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** No significant change from FY 2018 to FY 2019.					
Title: *Technical Control and Analysis Center (TCAC): Product Development	2.537	3.094	3.515	0.000	3.515
Articles:	-	-	-	-	-
FY 2018 Plans: - Continue system development and system design for JICD 4.2 and TWS software baseline. - Initiate research and development in support of next hardware refresh/TCAC FoS capability enhancement (RAWS/TWS/CDS). ***FY 2019 Base Plans:*** - Continue system development and system design for JICD 4.2 and TWS software baseline. - Continue research and development in support of next hardware refresh/TCAC FoS capability enhancement (RAWS/TWS/CDS). ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** Increase of $0.421M from FY18 to FY19 initiates assessments, testing, and development of program SCI hardware for refresh.					
Title: *Technical Control and Analysis Center (TCAC): Support	0.321	0.315	0.291	0.000	0.291
Articles:	-	-	-	-	-
FY 2018 Plans: - Continue technical support of improvements to TCAC baseline. - Initiate technical support for next TCAC hardware refresh/TCAC FoS capability enhancement (RAWS/TWS/CDS). ***FY 2019 Base Plans:***					

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
- Continue technical support of improvements to TCAC baseline. - Continue technical support for next TCAC hardware refresh/TCAC FoS capability enhancement (RAWS/TWS/ CDS). ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** No significant change from FY 2018 to FY 2019.					
Title: *Technical Control and Analysis Center (TCAC): Test and Evaluation ***Articles:***	2.051 -	1.640 -	2.534 -	0.000 -	2.534 -
FY 2018 Plans: - Continue integration and testing of JICD 4.2 and TWS software baseline. - Initiate research and test design in support of next hardware refresh/TCAC FoS capability enhancement (RAWS/TWS/CDS). ***FY 2019 Base Plans:*** - Continue integration and testing of JICD 4.2 and TWS software baseline. - Continue research and test design in support of next hardware refresh/TCAC FoS capability enhancement (RAWS/TWS/CDS). - Initiate assessments, testing , and development of program SCI hardware for refresh. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** Increase of $0.894M from FY18 to FY19 initiates assessments, testing, and development of program SCI hardware for refresh.					
Title: *Joint Worldwide Intel Comms Sys (JWICS): Product Development ***Articles:***	2.800 -	0.000 -	1.714 -	0.000 -	1.714 -
FY 2018 Plans: N/A ***FY 2019 Base Plans:***					

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
The SCI Enterprise Office (SEO) will conduct research, development, testing and evaluation (RDT&E) to engineer a deployable voice, video, data, and circuit realignment solution that will provide the warfighter JWCIS services in the tactical environment. The solution(s) developed will re-engineer the High Bandwidth Special Intelligence Palletized Terminal (HBSI-PT) communications path to reduce the latency for Marine Corps Joint Worldwide Intelligence Communication (JWICS) network, by development of a tactical Point of Presence (POP). The solution(s) will house enterprise services such as Active Directory (AD), Dynamic Host Control Protocol (DHCP), distributed files services (DFS), data storage, and print services behind a tactical node. This effort will also research the potential use of cloud services for continuity of tactical operations support. The solution(s) will increase the warfighters ability to produce useful and timely intelligence in a reliable, efficient manner. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** Increase of $1.714M from FY18 to FY19 reflects RDTE necessary to engineer a deployable voice, video, data, and circuit realignment solution that will provide the warfighter JWICS services in the tactical environment.					
Title: *Ground-Based Operational Surveillance System: Test and Evaluation	0.000	1.800	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2018 Plans: - Initiate integration, system testing, and evaluation of advanced network components and sensor assets into all three variants of G-BOSS as part of scheduled technical refresh. End state of developmental efforts is to replace obsolete commercial-off-the-shelf (COTS) components via Engineering Change Proposal (ECP) process. ***FY 2019 Base Plans:*** - Transitions to Terrestrial Collection ***FY 2019 OCO Plans:***					

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** Decrease of $1.8M in FY19 reflects the transition of GBOSS to Terrestrial Collection.					
Title: *MAGTF Secondary Imagery Dissemination System (MSIDS): Test and Evaluation	0.000	0.171	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2018 Plans: -Initiate test and evaluation effort for Base Station and Outstation data controllers to improve data throughout for compatibility with a new organic tactical radio waveform. ***FY 2019 Base Plans:*** N/A ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** Decrease of $0.171M from FY18 to FY19 reflects the transition of MSIDS to Terrestrial Collection.					
Title: *Tactical Remote Sensor System (TRSS): Product Development	0.098	0.200	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2018 Plans: - Continue development of software changes to properly receive, parse, and display messages from systems with improved radios as well as interface directly with these systems to program them. Will initiate development of hardware and software to replace obsolete Hand Held Programmable Monitors (HHPM) which will be utilized to configure and monitor the operation of the sensor network. ***FY 2019 Base Plans:*** - Transitions to Terrestrial Collection ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** Decrease of $0.200M from FY18 to FY19 reflects the transition of TRSS to Terrestrial Collection.					
Title: *Tactical Remote Sensor System (TRSS): Test and Evaluation	0.000	0.802	0.000	0.000	0.000

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Articles:	-	-	-	-	-
FY 2018 Plans: Initiate engineering efforts to determine the acceptability of the Signature Data Recorder (SDR),Hand Held Programmable Monitor (HHPM) and Common Sensor Radio (CSR) to include hardware and software testing. ***FY 2019 Base Plans:*** - Transitions to Terrestrial Collection ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** Decrease of $0.802M from FY18 to FY19 reflects the transition of TRSS to Terrestrial Collection.					
Title: *Terrestrial Collection: Product Development	0.000	0.000	1.088	0.000	1.088
Articles:	-	-	-	-	-
FY 2018 Plans: N/A ***FY 2019 Base Plans:*** - Initiate development of Imager IIA software and hardware in order to properly receive, parse, and display messages; program, and confirm operational status of end items within the TRSS systems of systems. - Initiate development of TRSS Sentinel software changes to properly receive, parse, and display messages from systems with improved radios as well as interface directly with these systems to program them. - Initiate development of TRSS laptop software and hardware in order to properly receive, parse, and display messages, program, and confirm operational status of end items within the TRSS systems of systems. - Initiate integration system testing, and evaluation of advanced network components and sensor assets into all three variants of G-BOSS as part of scheduled technical refresh. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** Increase of $1.088M from FY18 to FY19 is attributable to GBOSS, MSIDS, and TRSS consolidation into Terrestrial Collection.					
Title: *Terrestrial Collection: Test and Evaluation	0.000	0.000	1.401	0.000	1.401

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Articles:	-	-	-	-	-
FY 2018 Plans: N/A ***FY 2019 Base Plans:*** - Continue MSIDS test and evaluation effort for Base Station and Outstation data controllers to improve data throughout for compatibility with a new organic tactical radio waveform. - Continue integration, system testing, and evaluation of advanced network components and sensor assets into all three variants of G-BOSS as part of scheduled technical refresh. End state of developmental efforts is to replace obsolete commercial-off-the-shelf (COTS) components via Engineering Change Proposal (ECP) process. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** Increase of $1.401M from FY18 to FY19 is attributable to GBOSS, MSIDS, and TRSS consolidation into Terrestrial Collection.					
Title: *Terrestrial Collection: Support	0.000	0.000	1.000	0.000	1.000
Articles:	-	-	-	-	-
FY 2018 Plans: N/A ***FY 2019 Base Plans:*** - Initiate technical support and technical engineering efforts related to developmental test,electromagnetic test range utilization, developmental test range utilization, functional verification testing, and physical movement of test assets to and from system integrator facilities to test ranges associated with tech refresh of advanced network components and sensor assets into all three variants of G-BOSS. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:***					

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Increase of $1.000M from FY18 to FY19 is attributable to GBOSS, MSIDS, and TRSS consolidation into Terrestrial Collection.					
Accomplishments/Planned Programs Subtotals	22.978	30.886	33.501	0.000	33.501

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
• PMC/474703: *TCAC*	4.874	4.581	6.749	-	6.749	4.276	4.262	2.853	2.938	Continuing	Continuing
• PMC/474761: *IAS*	17.160	8.396	9.570	-	9.570	7.770	11.165	8.210	8.375	Continuing	Continuing
• PMC/700000: *IAS SPARES*	0.128	0.158	0.160	-	0.160	0.166	0.169	0.172	0.176	Continuing	Continuing
• PMC/474709: *CIHEP*	17.830	3.525	6.066	-	6.066	12.976	6.010	6.246	6.323	Continuing	Continuing
• PMC/474702: *TSCS*	13.484	9.496	23.173	-	23.173	21.626	11.744	10.910	11.233	Continuing	Continuing
• PMC/474701: *CESAS*	12.243	9.223	5.556	-	5.556	5.188	10.218	11.150	14.022	Continuing	Continuing
• PMC/474700: *SCI COMMS*	7.136	6.402	7.325	-	7.325	1.859	0.246	0.251	0.256	Continuing	Continuing
• PMC/700003: *TRSS SPARES*	0.053	0.099	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
• PMC/700005: *MSIDS SPARES*	0.084	0.099	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
• PMC/474752: *IBR*	1.420	6.697	4.352	-	4.352	3.015	1.495	1.510	1.540	Continuing	Continuing
• PMC/474713: *TRSS*	1.536	2.638	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	5.022
• PMC/474719: *MSIDS*	2.942	2.503	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	5.445
• PMC/4747XX: *G-BOSS*	0.000	1.200	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	1.200
• PMC/4747XY: *JWICS*	29.963	4.098	4.615	-	4.615	4.701	4.792	8.022	7.586	Continuing	Continuing
• PMC/4747TC: *TERRESTRIAL COLLECTION*	0.000	0.000	6.442	-	6.442	2.976	0.783	0.687	2.701	Continuing	Continuing
• PMC/700006: *TERRESTRIAL COLLECTION SPARES*	0.000	0.000	0.261	-	0.261	0.200	0.202	0.206	0.210	Continuing	Continuing

Remarks

D. Acquisition Strategy

(U) SCI COMMS: SCI COMMS leverages SSC-LANT support for Engineering Change Proposal (ECP) support and existing Army Communication-Electronic Command (CECOM) Small Business Innovation Research (SBIR) contract for test asset procurement.

(U) TCAC: The acquisition of components for the TCAC will maximize the use of existing equipment, NDI/COTS/GFE equipment/software.

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
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*

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

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

(U) IAS: IAS 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.

(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) 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 programs which are mature for integration of emerging technologies into the Marine Corps Intelligence, Surveillance, and Reconnaissance Enterprise (MCISR-E).

(U) CESAS: CESAS II production will consist of COTS and NDI integration into an existing GOTS architecture. Production efforts will be conducted at Naval laboratories.

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

(U) G-BOSS: Tech refresh for sustainability to ensure operational readiness of the G-BOSS assets, assumes required engineering and logistics refresh funded per additional capability initiative.

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

(U) Terrestrial Collection: Tech refresh for sustainability to ensure operational readiness of the G-BOSS 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.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy		Date: February 2018
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 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Prior Years Cumulative Funding	Various	Various : Various	29.929	0.000		0.000		0.000		-		0.000	0.000	29.929	-
CESAS	WR	SPAWAR : CHARLESTON, SC	2.775	0.696	Dec 2016	3.294	Dec 2017	6.383	Dec 2018	-		6.383	Continuing	Continuing	Continuing
CIHEP	WR	SPAWAR3 : CHARLESTON, SC	0.000	0.300	Nov 2016	0.000		0.000		-		0.000	0.000	0.300	-
IAS	WR	SPAWAR : CHARLESTON, SC	1.725	1.201	Nov 2016	1.737	Nov 2017	0.000		-		0.000	0.000	4.663	-
IAS	C/CPFF	SPAWAR A3 : CHARLESTON, SC	0.039	1.489	Feb 2017	3.125	Feb 2018	3.905	Feb 2019	-		3.905	Continuing	Continuing	Continuing
IBR	Various	VARIOUS : VARIOUS	0.100	0.110	Dec 2016	0.474	Dec 2017	0.476	Dec 2018	-		0.476	Continuing	Continuing	Continuing
SCI COMMS	C/FFP	CECOM : ABERDEEN, MD	0.073	0.017	Sep 2017	0.168	Mar 2018	0.395	Jul 2019	-		0.395	Continuing	Continuing	Continuing
TENCAP	C/IDIQ	NSMA : BOLLING AFB	0.000	0.098	Mar 2017	0.000		0.000		-		0.000	0.000	0.098	-
TENCAP	C/IDIQ	SPAWAR-2 : CHARLESTON, SC	0.000	0.092	Aug 2017	0.000		0.000		-		0.000	0.000	0.092	-
TENCAP	C/CPFF	DTIC-1 : FT. BELVOIR	11.547	1.086	Oct 2016	0.000		0.000		-		0.000	0.000	12.633	-
TENCAP	WR	SPAWAR : CHARLESTON, SC	1.782	0.208	Oct 2016	0.450	Oct 2017	0.000		-		0.000	0.000	2.440	-
TENCAP	C/CPFF	DTIC-2 : FT. BELVOIR	0.010	2.631	Jan 2017	5.998	Oct 2017	0.000		-		0.000	0.000	8.639	-
TSCS	WR	SPAWAR : CHARLESTON, SC	4.942	3.320	Dec 2016	2.403	Mar 2018	5.330	Mar 2019	-		5.330	Continuing	Continuing	Continuing
TCAC	C/CPFF	SPAWAR2 : Charleston, SC	1.572	0.342	Jan 2017	0.228	Jan 2018	0.800	Jan 2019	-		0.800	Continuing	Continuing	Continuing
TCAC	WR	SPAWAR8 : San Diego, CA	8.926	2.195	Jan 2017	2.866	Jan 2018	2.715	Jan 2019	-		2.715	Continuing	Continuing	Continuing
JWICS	C/CPFF	DTIC-2 : FT. BELVOIR	0.000	2.800	May 2017	0.000		1.714	Sep 2019	-		1.714	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy			Date: February 2018
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 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
TRSS	WR	SPAWAR-A2 : CHARLESTON, SC	0.195	0.098	Nov 2016	0.200	Nov 2017	0.000		-		0.000	0.000	0.493	-
Terrestrial Collection	WR	SPAWARTC : CHARLESTON, SC	0.000	0.000		0.000		1.088	Nov 2018	-		1.088	Continuing	Continuing	Continuing
		Subtotal	63.615	16.683		20.943		22.806		-		22.806	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Prior Years Cumulative Funding	Various	Not Specified : Not Specified	2.687	0.000		0.000		0.000		-		0.000	0.000	2.687	-
CESAS	Various	MCSC9 : QUANTICO, VA	0.781	0.017	Sep 2017	0.025	Sep 2018	0.039	Sep 2019	-		0.039	Continuing	Continuing	Continuing
IAS	C/CPFF	DTIC : Fort Belvoir, VA	1.748	0.291	Jul 2017	0.662	Apr 2018	0.000		-		0.000	0.000	2.701	-
IAS	C/FFP	CECOM : FT. BELVOIR, VA	0.000	0.891	Nov 2016	0.304	Oct 2017	0.000		-		0.000	Continuing	Continuing	Continuing
IAS	C/CPFF	SPAWAR : Charleston, SC	0.000	0.000		0.000		0.567	Feb 2019	-		0.567	0.000	0.567	-
SCI COMMS	WR	SPAWAR : Charleston, SC	0.172	0.000		0.110	Feb 2018	0.113	Feb 2019	-		0.113	Continuing	Continuing	Continuing
TSCS	Various	MCSC20 : QUANTICO, VA	0.125	0.033	Aug 2017	0.035	Aug 2018	0.000		-		0.000	Continuing	Continuing	Continuing
TCAC	MIPR	DTIC : FT Belvoir, VA	1.683	0.284	Apr 2017	0.300	Apr 2018	0.000		-		0.000	0.000	2.267	-
TCAC	WR	SPAWAR-P : San Diego, CA	3.568	0.000		0.000		0.276	Apr 2019	-		0.276	Continuing	Continuing	Continuing
TCAC	Various	MCSC26 : QUANTICO, VA	0.006	0.037	Sep 2017	0.015	Sep 2018	0.015	Sep 2019	-		0.015	Continuing	Continuing	Continuing
Terrestrial Collection	WR	NSWC CRANE : Crane, IN	0.000	0.000		0.000		1.000	Nov 2018	-		1.000	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy			Date: February 2018
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*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	10.770	1.553		1.451		2.010		-		2.010	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Prior Years Cumulative Funding	Various	Various : Various	8.033	0.000		0.000		0.000		-		0.000	0.000	8.033	-
CIHEP	WR	SPAWAR-A4 : CHARLESTON, SC	0.490	0.385	Nov 2016	0.325	Nov 2017	0.332	Nov 2018	-		0.332	Continuing	Continuing	Continuing
IAS	C/FFP	DTIC : FT. BELVOIR, VA	0.000	0.299	Apr 2017	0.500	Apr 2018	0.000		-		0.000	0.000	0.799	-
IAS	WR	SPAWAR : CHARLESTON, SC	0.000	0.000		0.461	Nov 2017	1.700	Feb 2019	-		1.700	Continuing	Continuing	Continuing
SCI COMMS	TBD	MCIA : QUANTICO, VA	0.000	0.050	Mar 2018	0.073	Mar 2018	0.198	Mar 2019	-		0.198	Continuing	Continuing	Continuing
TSCS	WR	SPAWAR : CHARLESTON, SC	0.719	1.957	Dec 2016	2.720	Dec 2017	2.520	Dec 2018	-		2.520	Continuing	Continuing	Continuing
TCAC	C/CPFF	SPAWAR8 : CHARLESTON, SC	0.541	0.590	Feb 2017	0.586	Feb 2018	0.971	Feb 2019	-		0.971	Continuing	Continuing	Continuing
TCAC	C/CPFF	SPAWAR9 : SAN DIEGO, CA	0.000	1.461	Jan 2017	1.054	Jan 2018	1.563	Jan 2019	-		1.563	Continuing	Continuing	Continuing
G-BOSS	WR	NSWC CRANE : CRANE, IN	0.000	0.000		1.800	Feb 2018	0.000		-		0.000	0.000	1.800	-
MSIDS	WR	SPAWAR : CHARLESTON, SC	0.000	0.000		0.171	Dec 2017	0.000		-		0.000	0.000	0.171	-
TRSS	WR	SPAWAR-A1 : CHARLESTON, SC	0.000	0.000		0.802	Dec 2017	0.000		-		0.000	0.000	0.802	-
Terrestrial Collection	WR	SPAWAR : CHARLESTON, SC	0.000	0.000		0.000		0.174	Dec 2018	-		0.174	Continuing	Continuing	Continuing
Terrestrial Collection	WR	NSWC CRANETC : CRANE, IN	0.000	0.000		0.000		1.227	Nov 2018	-		1.227	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy		Date: February 2018
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 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	9.783	4.742		8.492		8.685		-		8.685	Continuing	Continuing	N/A

	Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	84.168	22.978		30.886		33.501		-		33.501	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy		Date: February 2018
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 II Program Schedule (Funded)

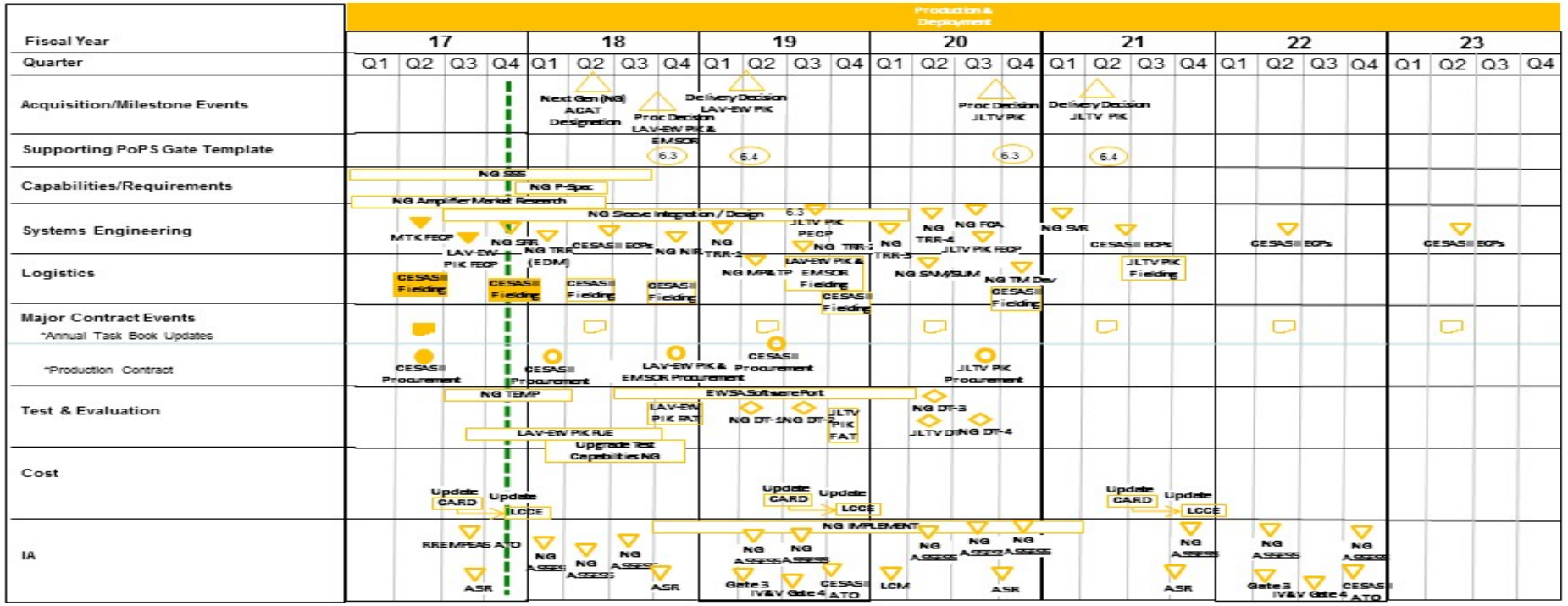
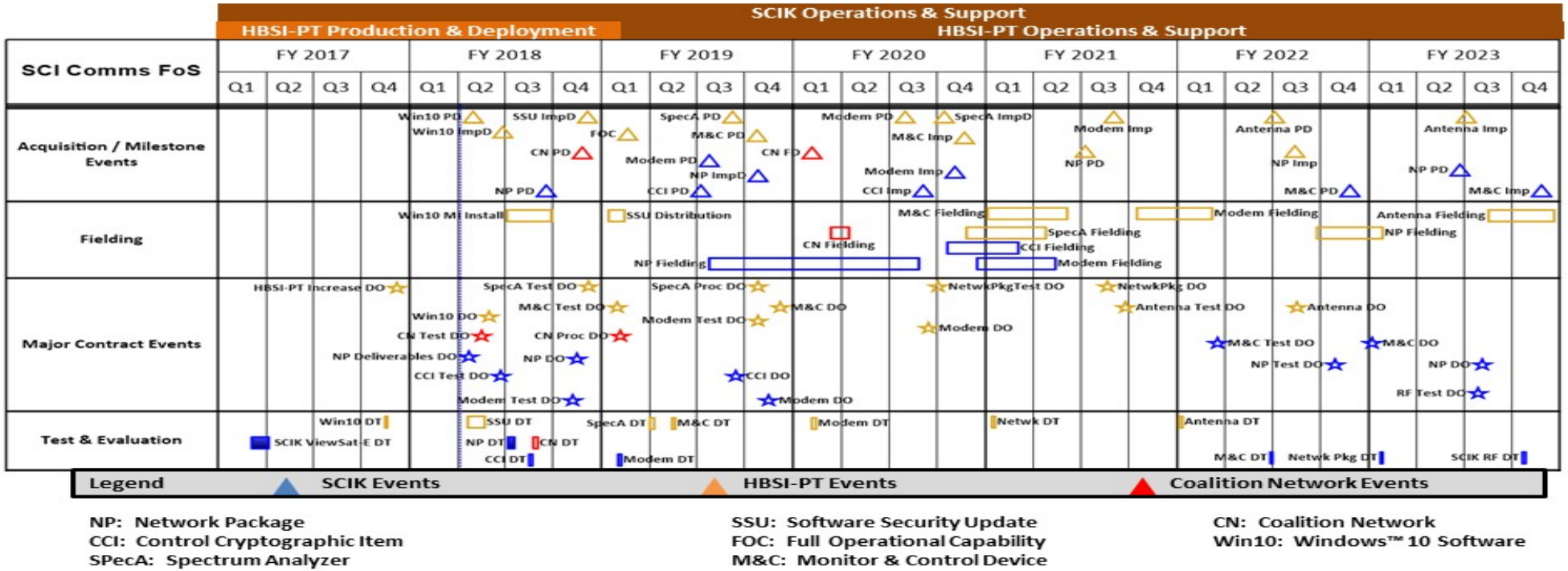


Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/ Electronics Warfare Sys*	**Project (Number/Name)** 2272 / *Intel Command and Control (C2) Sys*

Sensitive Compartmented Information Communications Family of Systems (SCI Comms FoS)



NP: Network Package
CCI: Control Cryptographic Item
SPecA: Spectrum Analyzer

SSU: Software Security Update
FOC: Full Operational Capability
M&C: Monitor & Control Device

CN: Coalition Network
Win10: Windows™ 10 Software

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy		Date: February 2018
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*

TCAC Program Schedule

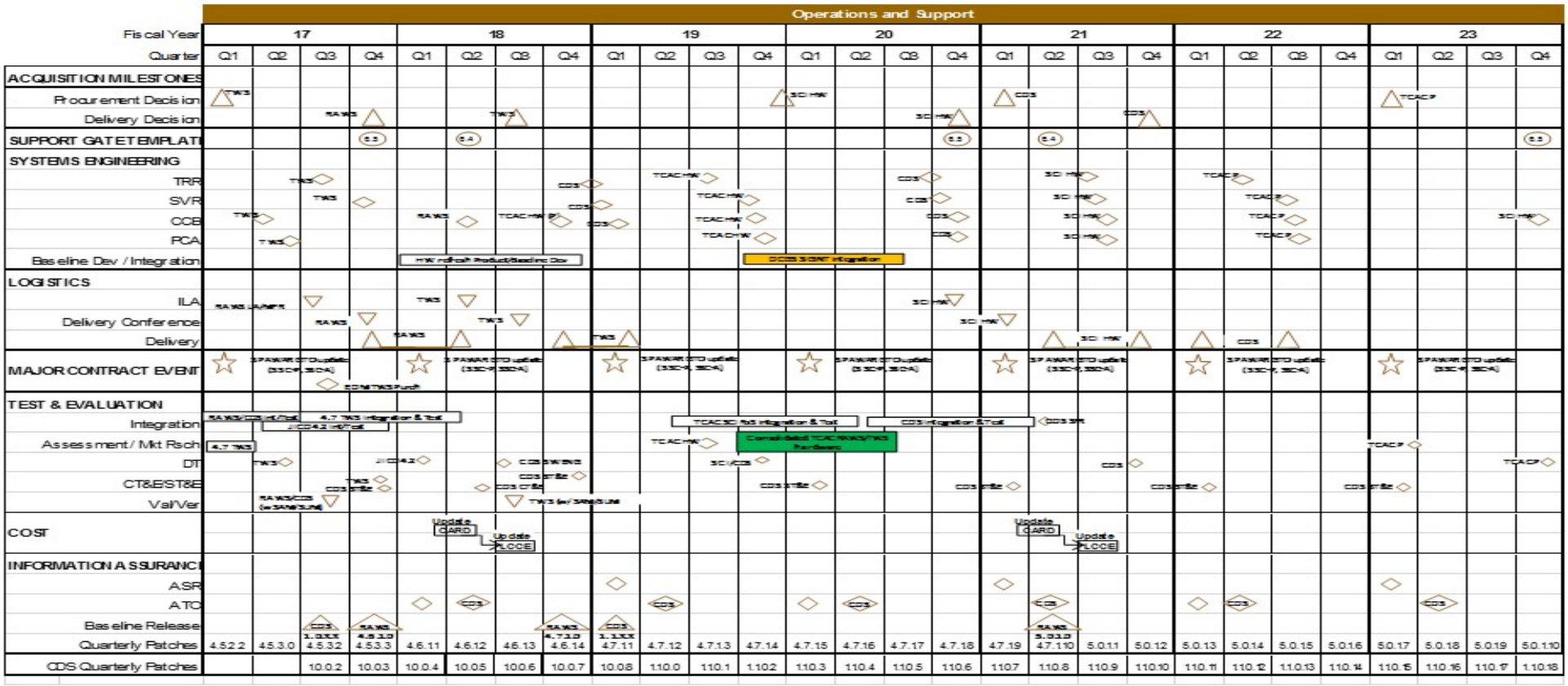


Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/ Electronics Warfare Sys*	**Project (Number/Name)** 2272 / *Intel Command and Control (C2) Sys*

TSCS Program Schedule

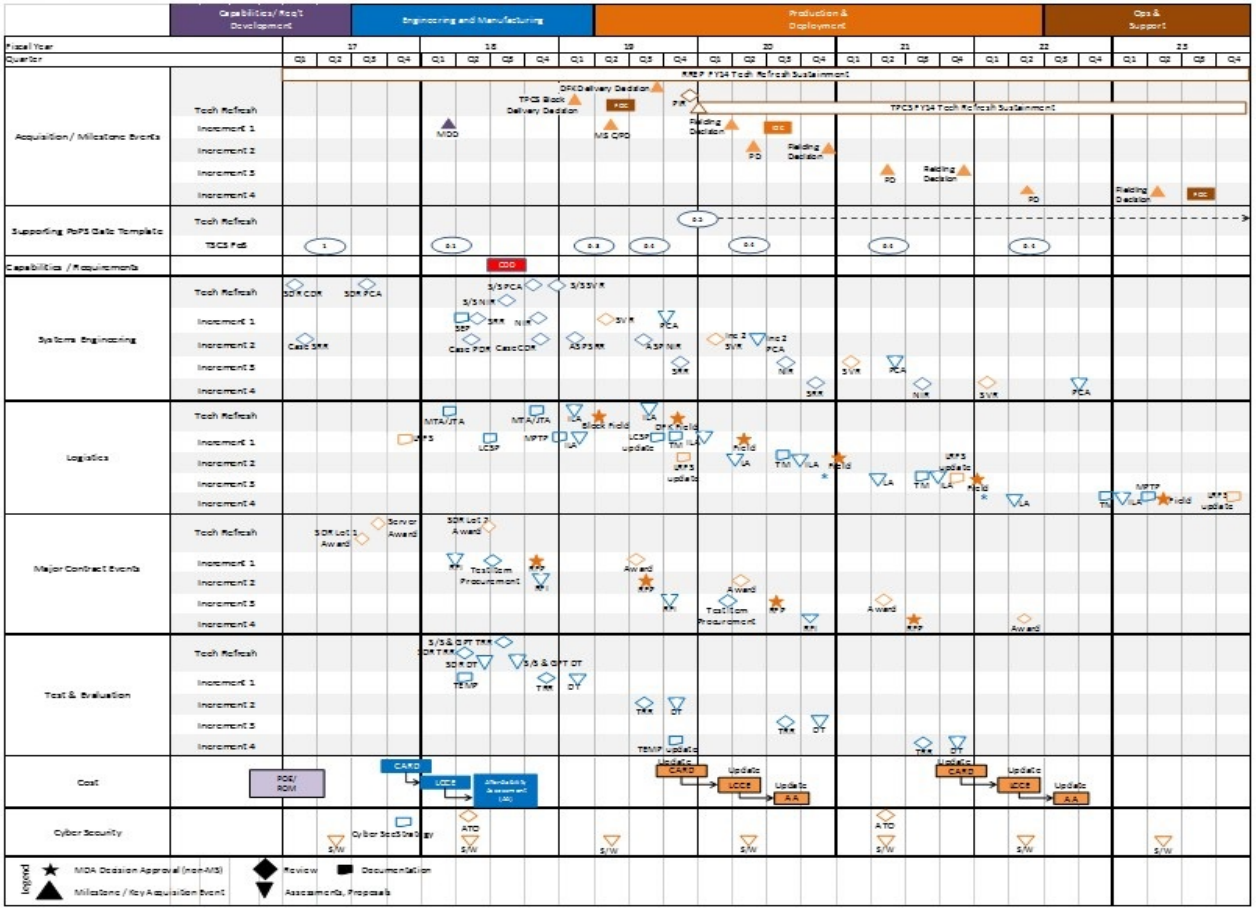


Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/ Electronics Warfare Sys*	**Project (Number/Name)** 2272 / *Intel Command and Control (C2) Sys*

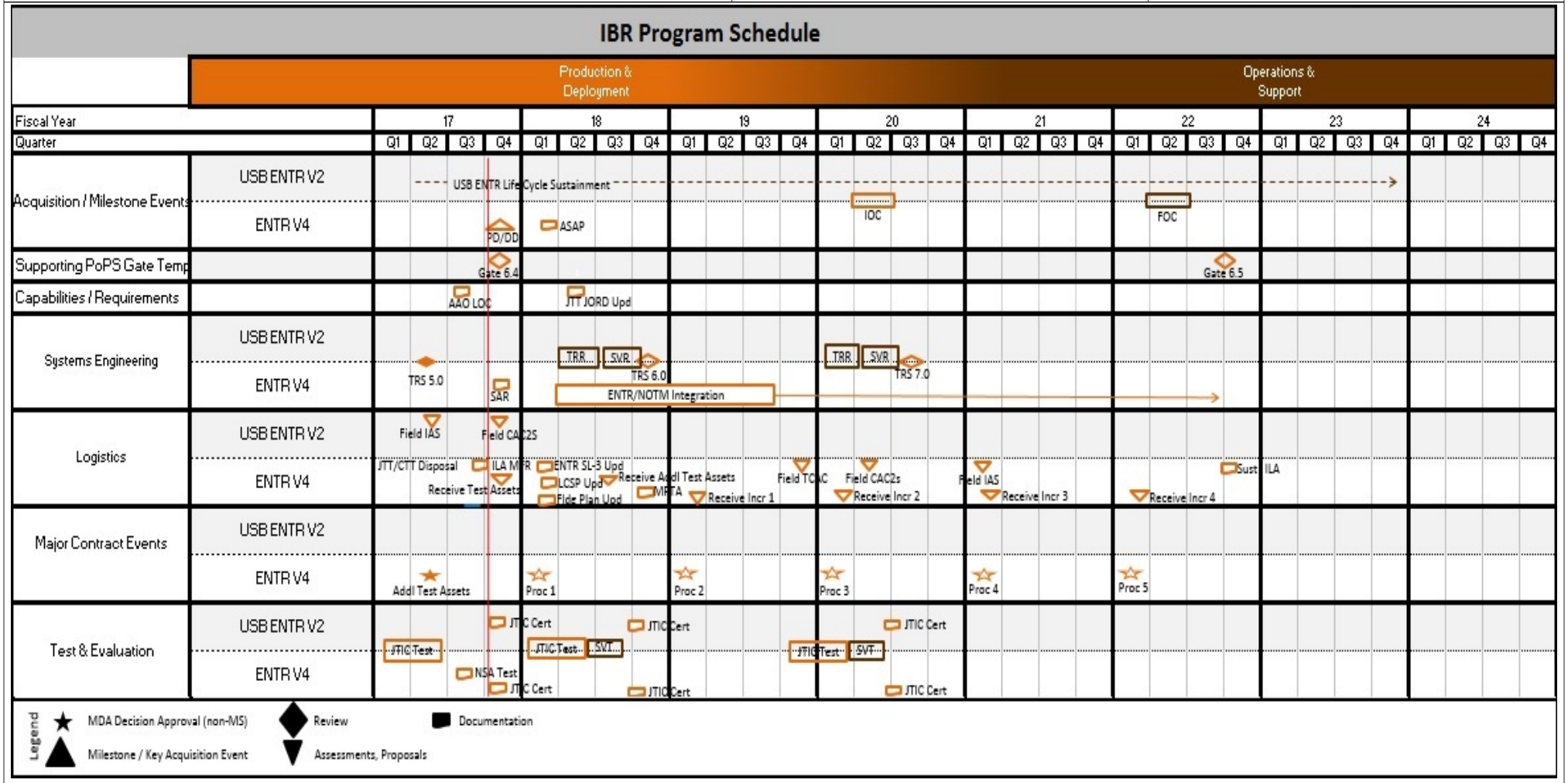


Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/ Electronics Warfare Sys*	**Project (Number/Name)** 2272 / *Intel Command and Control (C2) Sys*

CIHEP FoS Program Schedule

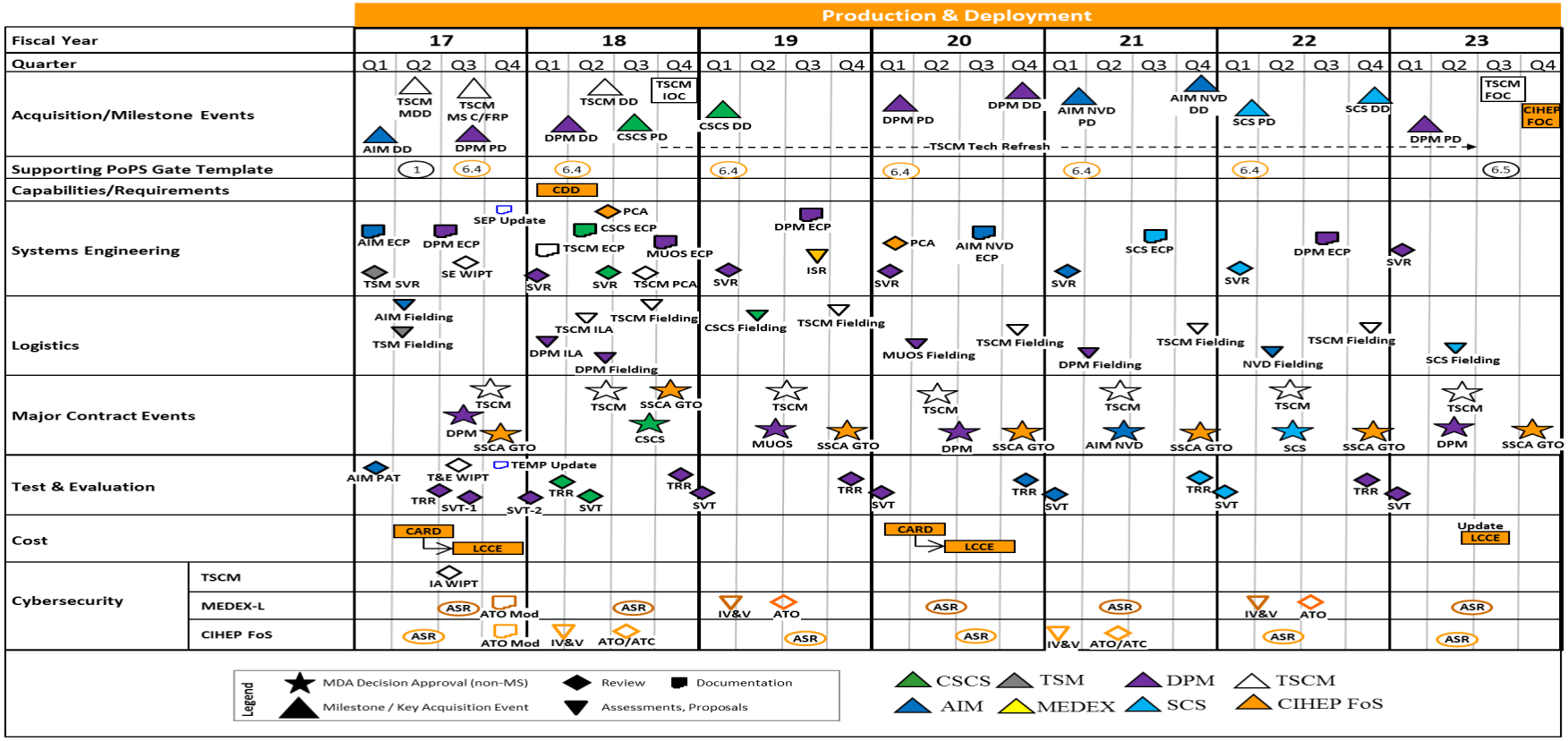
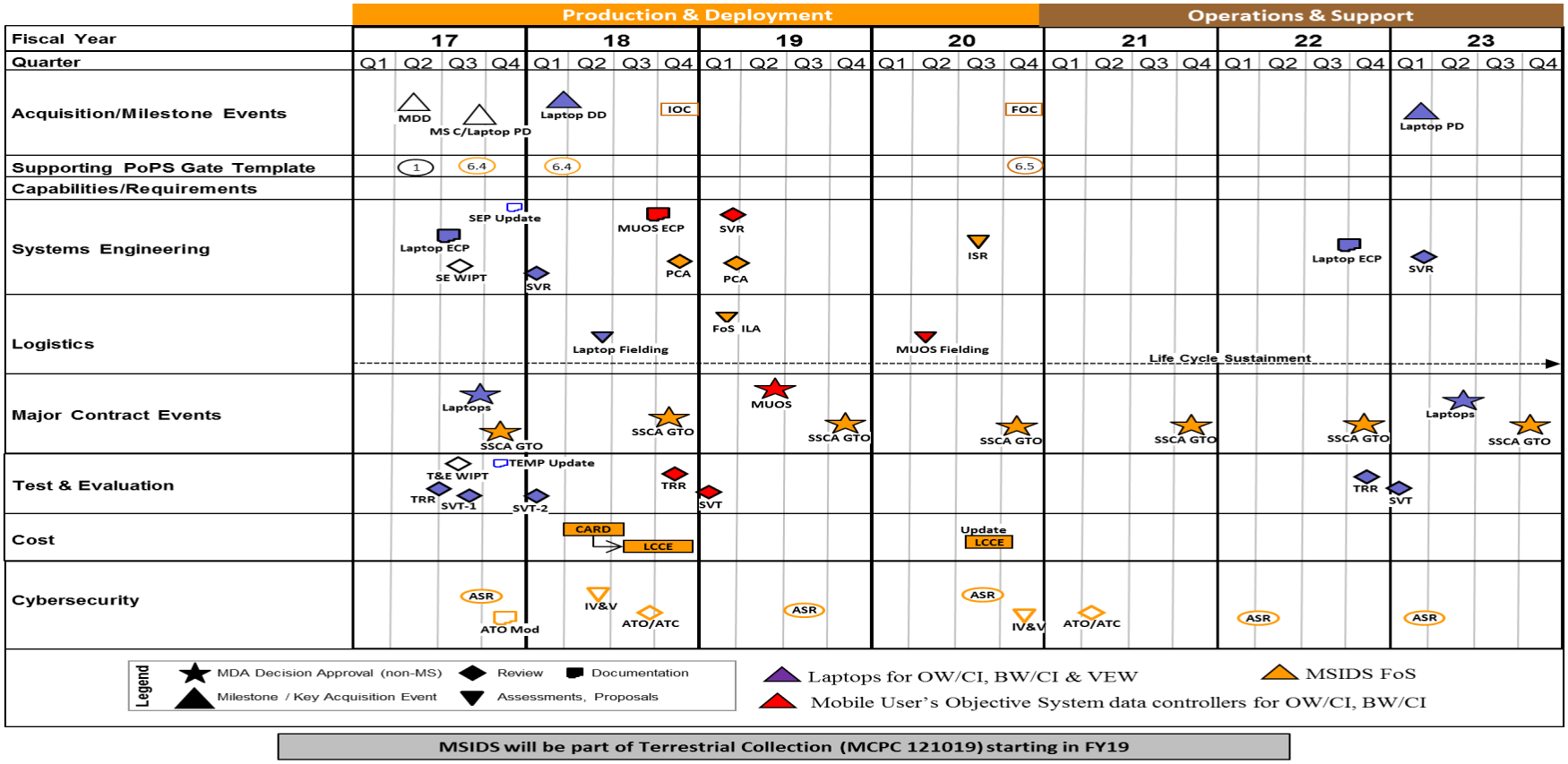


Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/ Electronics Warfare Sys*	**Project (Number/Name)** 2272 / *Intel Command and Control (C2) Sys*

MSIDS FoS Program Schedule



MSIDS will be part of Terrestrial Collection (MCPC 121019) starting in FY19

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy		Date: February 2018
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*

TRSS SoS Program Schedule

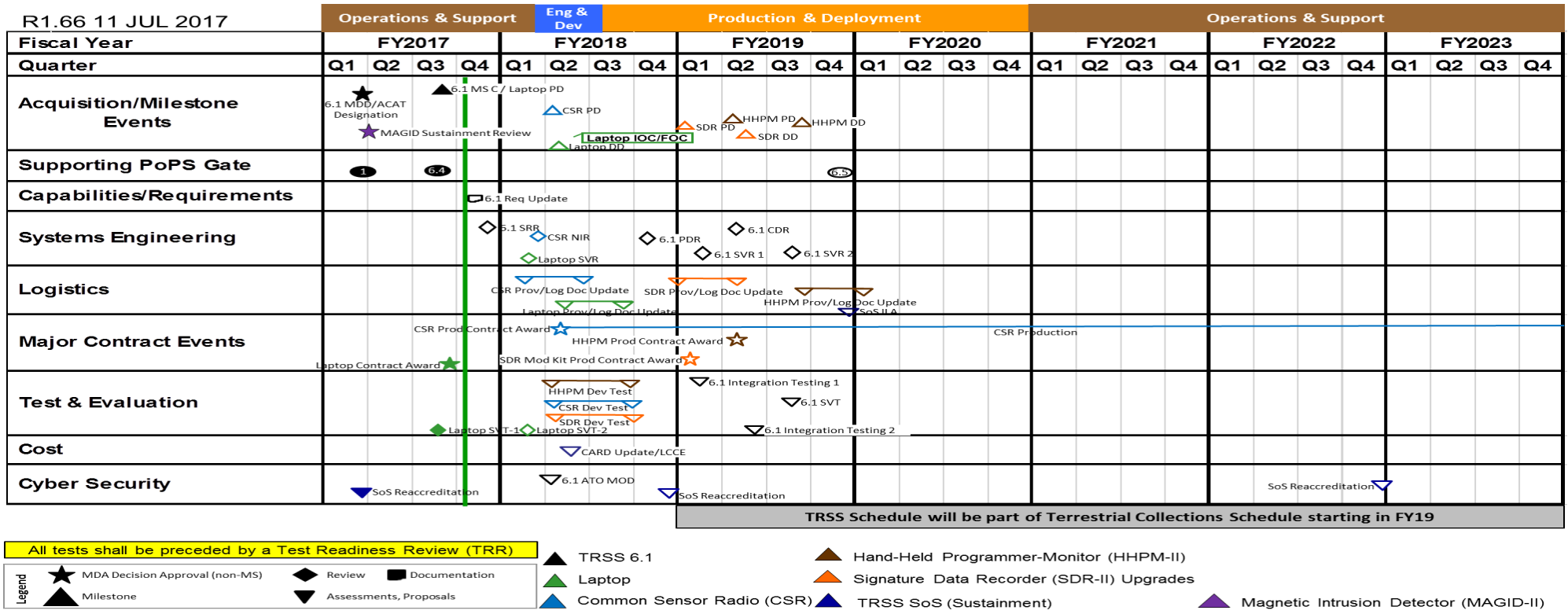


Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/ Electronics Warfare Sys*	**Project (Number/Name)** 2272 / *Intel Command and Control (C2) Sys*

Terrestrial Collection Program Schedule

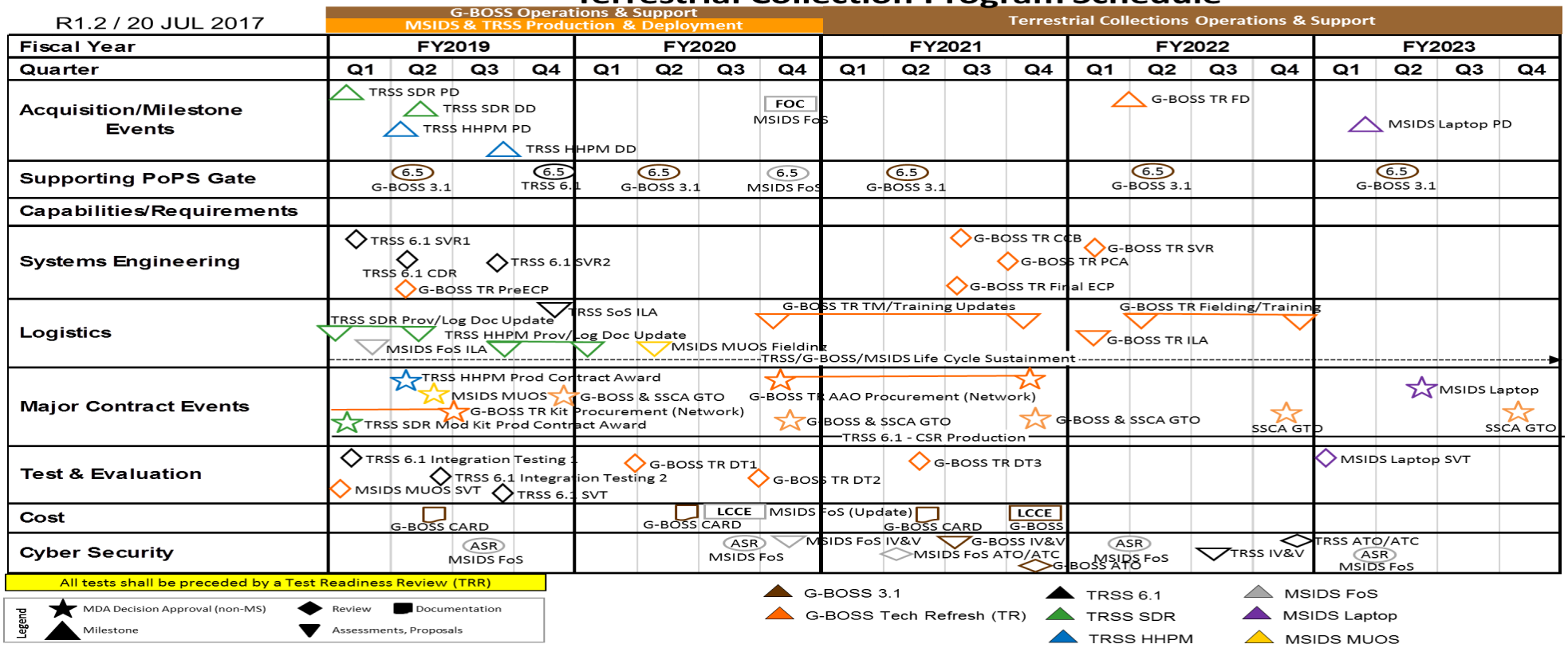
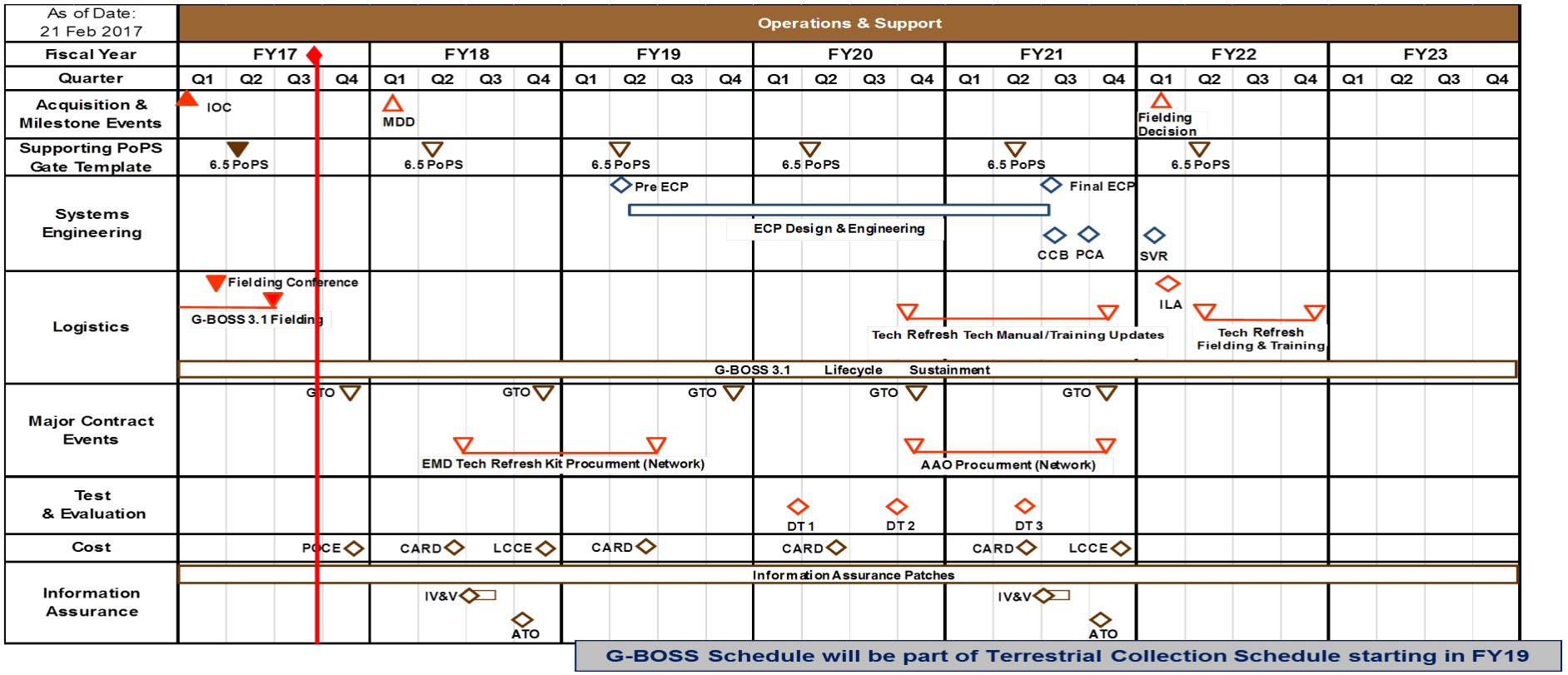


Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/ Electronics Warfare Sys*	**Project (Number/Name)** 2272 / *Intel Command and Control (C2) Sys*

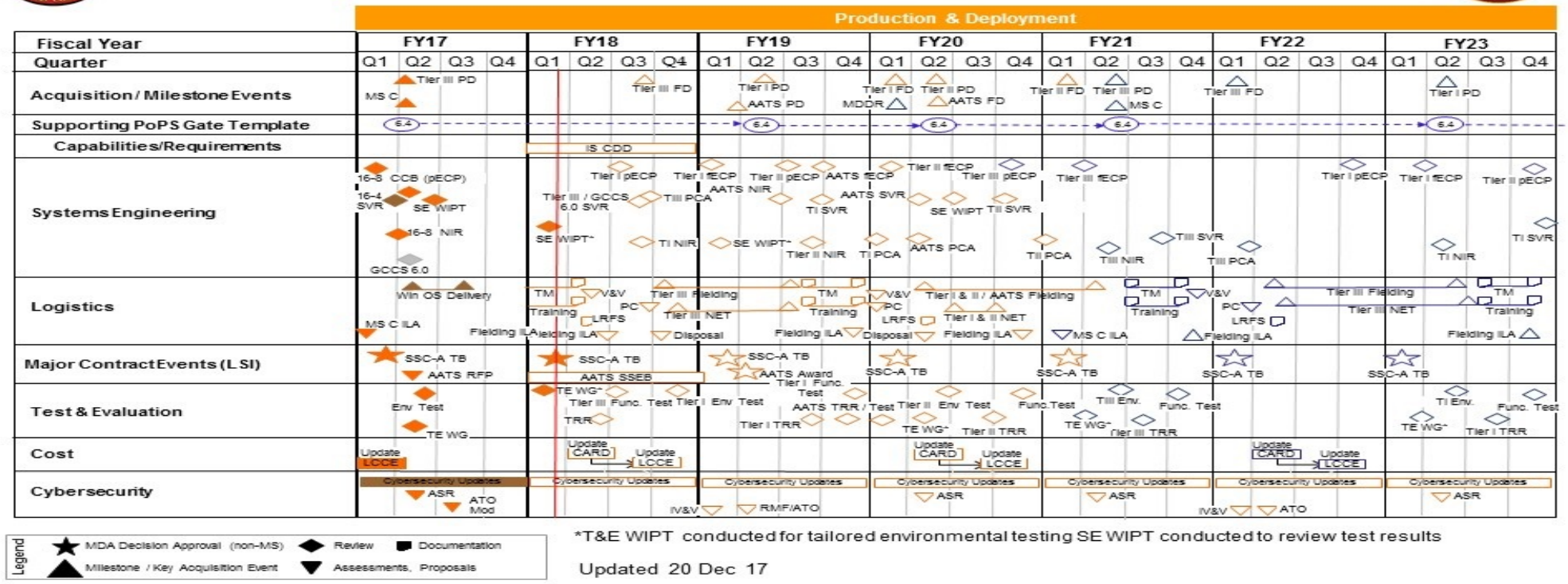
Schedule – G-BOSS



G-BOSS Schedule will be part of Terrestrial Collection Schedule starting in FY19

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy		Date: February 2018
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*

IAS FoS Program Schedule



*T&E WIPT conducted for tailored environmental testing SE WIPT conducted to review test results

Updated 20 Dec 17

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy		Date: February 2018
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*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 2272				
TCAC SCI HW Procurement Decision	4	2019	4	2019
IAS MS C Decision	2	2017	2	2017
IAS Advanced Analytics Production Decision	2	2019	2	2019
CESAS LAV-EW PIK and EMSOR Procurement Decision	3	2018	3	2018
CESAS LAV-EW PIK Delivery Decision	2	2019	2	2019
SCI COMMS FOC (HBSI-PT)	1	2019	1	2019
SCI COMMS Monitor & Control Device Test Asset Procurement	1	2019	1	2019
SCI COMMS SPEC A Procurement Decision	3	2019	3	2019
SCI COMMS Controlled Cryptographic Items Procurement Decision	3	2019	3	2019
SCI COMMS Modem Procurement Decision	3	2019	3	2019
SCI COMMS Monitor & Control Device Procurement Decision	4	2019	4	2019
CIHEP Technical Surveillance Countermeasures (TSCM) Material Development Decision	2	2017	2	2017
CIHEP Technical Surveillance Countermeasures (TSCM) Milestone C / FRP	3	2017	3	2017
CIHEP Data Processing Module (DPM) Procurement Decision	3	2017	3	2017
CIHEP Data Processing Module (DPM) Delivery Decision	1	2018	1	2018
CIHEP Technical Surveillance Countermeasures (TSCM) Delivery Decision	2	2018	2	2018
CIHEP Commercial Satellite Communications Set (CSCS) Production Decision	3	2018	3	2018
CIHEP Technical Surveillance Countermeasures (TSCM) IOC	4	2018	4	2018
CIHEP Commercial Satellite Communications Set (CSCS) Delivery Decision	1	2019	1	2019
IBR Procurement Decision / Delivery Decision (ENTR Version 4)	4	2017	4	2017

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy		Date: February 2018
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*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
IBR Initial Operational Capability (IOC) (ENTR Version 4)	2	2020	2	2020
IBR Full Operational Capability (FOC) (ENTR Version 4)	2	2022	2	2022
GBOSS IOC	1	2017	1	2017
GBOSS MDD	1	2018	1	2018
MSIDS MDD	2	2017	2	2017
MSIDS Milestone C / Production Decision (Laptops)	3	2017	3	2017
MSIDS Delivery Decision (Laptops)	1	2018	1	2018
MSIDS IOC	4	2018	4	2018
TRSS IOC/FOC SMG/SMG-LITE Components (Laptops)	2	2018	1	2019
Terrestrial Collection: G-BOSS Tech Refresh Development & Interoperability	1	2019	3	2019
Terrestrial Collection: TRSS Decision Signature Data Recorder (SDR) Procurement Decision	1	2019	1	2019
Terrestrial Collection: TRSS Hand Held Programmable Monitor (HHPM) Procurement Decision	2	2019	2	2019
Terrestrial Collection: TRSS Signature Data Recorder (SDR) Delivery Decision	2	2019	2	2019
Terrestrial Collection: TRSS Hand Held Programmable Monitor (HHPM) Delivery Decision	3	2019	3	2019
Terrestrial Collection: MSIDS FOC	4	2020	4	2020
TSCS Procurement Decision (Increment 1)	2	2019	2	2019
TSCS Contract Award (Increment 1)	3	2019	3	2019

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy			Date: February 2018
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
3771: *Tactical Exploitation of National Capabilities (TENCAP)*	0.000	0.000	0.000	6.475	-	6.475	6.484	6.594	6.731	6.869	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

Beginning in FY19, TENCAP funding has been realigned from project 2272 to 3771, Tactical Exploitation of National Capabilities. Realignment of efforts to new BLIs in FY 19 and beyond reflects USMC Program Management Office (PMO) reorganization to improve support of USMC OPFOR.

A. Mission Description and Budget Item Justification

Tactical Exploitation of National Capabilities (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.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Tactical Exploitation of National Capabilities (TENCAP): Product Development & Technical Assessments	0.000	0.000	6.475	0.000	6.475
Articles:	-	-	-	-	-
FY 2018 Plans: Refer to Project: 2272; TENCAP will be funded in 2272 in FY18.					
FY 2019 Base Plans: - Continue to conduct research and development, advanced technology demonstrations, and integration of emerging technologies into the Marine Corps Intelligence, Surveillance, and Reconnaissance Enterprise (MCISRE). - 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 Science and Technology (S&T)/R&D efforts to bring evolutionary intelligence capabilities to the operating forces. - Continue to provide technical assessments and field utility evaluations for the integration of current and emerging intelligence 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 MCISRE architecture.					

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
- Continue training and education efforts by providing the operating forces with supported simulation, visualization, and improved mission planning capabilities. - Continue efforts to provide transition support to Rapid Reliable Targeting (RRT). - Initiate development, integration, and FUE of innovative national data receipts and dissemination capabilities from insertion into MCISRE. ***FY 2019 OCO Plans:*** N/A ***FY 2018 to FY 2019 Increase/Decrease Statement:*** The $6.475M increase from FY18 to FY19 reflects the move from Project 2272 to 3371. The actual increase from FY18 ($6.448M) to FY19 ($6.475M) is $0.027M which will be used for additional technical assessments.					
Accomplishments/Planned Programs Subtotals	0.000	0.000	6.475	0.000	6.475

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

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 programs which are mature for integration of emerging technologies into the Marine Corps Intelligence, Surveillance, and Reconnaissance Enterprise (MCISR-E).

E. Performance Metrics

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy		Date: February 2018
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 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
TENCAP	C/CPFF	DTIC : FT BELVOIR, VA	0.000	0.000		0.000		6.025	Nov 2018	-		6.025	Continuing	Continuing	Continuing
TENCAP	WR	SSCLANT : CHARLESTON, SC	0.000	0.000		0.000		0.450	Oct 2018	-		0.450	Continuing	Continuing	Continuing
		Subtotal	0.000	0.000		0.000		6.475		-		6.475	Continuing	Continuing	N/A

	Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.000		0.000		6.475		-		6.475	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy		Date: February 2018
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)*

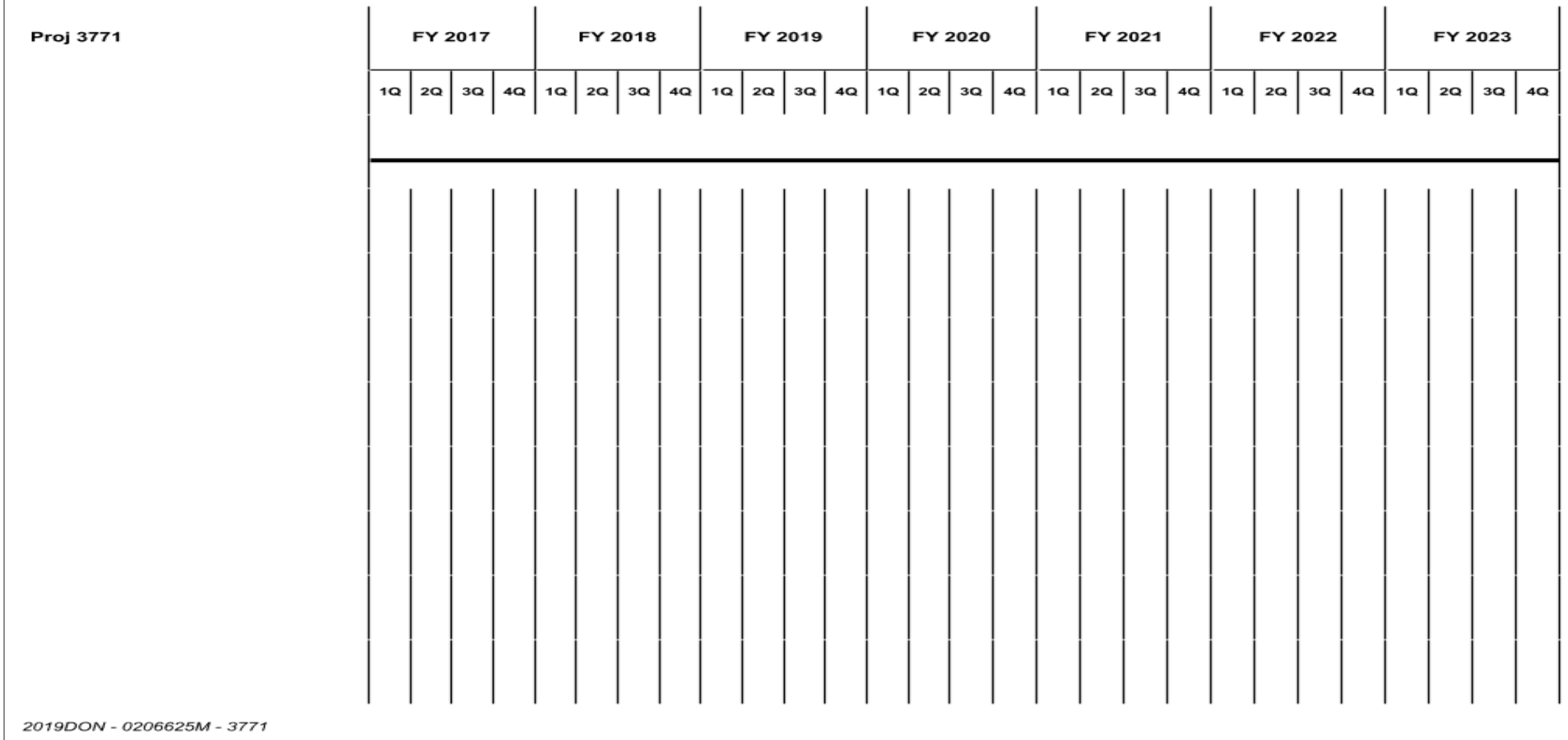


Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0206625M / *USMC Intelligence/ Electronics Warfare Sys*	**Project (Number/Name)** 3771 / *Tactical Exploitation of National Capabilities (TENCAP)*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 3771				
Continued RDTEN of new and emerging tech into MCISRE	1	2017	4	2023