Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Navy												Date: March 2023
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*					R-1 Program Element (Number/Name) PE 0604231N *I COMMAND AND CONTROL*							
COST ($ in Millions)	**Prior Years**	**FY 2022**	**FY 2023**	**FY 2024 Base**	**FY 2024 OCO**	**FY 2024 Total**	**FY 2025**	**FY 2026**	**FY 2027**	**FY 2028**	**Cost To Complete**	**Total Cost**
Total Program Element	627.726	118.895	143.573	87.457	-	87.457	79.389	74.818	67.899	69.266	Continuing	Continuing
0486: *Tactical Support Center*	154.195	5.406	6.060	6.167	-	6.167	12.627	14.836	12.546	12.798	Continuing	Continuing
2343: *Tactical METOC Applications*	23.256	11.279	12.976	13.271	-	13.271	12.724	12.900	12.987	13.250	Continuing	Continuing
2345: *Fleet METOC Equipment*	2.590	0.548	0.498	0.640	-	0.640	0.613	0.503	0.514	0.524	Continuing	Continuing
2363: *Remote Sensing Capability Development*	12.489	4.318	4.745	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	21.552
3050: *Deployable JT Command and Control*	5.728	2.480	3.840	3.785	-	3.785	3.558	3.612	3.669	3.744	Continuing	Continuing
3260: *Naval Operations Business Logistics Enterprise (NOBLE)*	164.234	92.032	112.477	62.791	-	62.791	49.082	42.165	37.365	38.115	Continuing	Continuing
3324: *Navy Air Operations Command and Control (NAOC2)*	17.031	0.686	0.740	0.803	-	0.803	0.785	0.802	0.818	0.835	Continuing	Continuing
9123: *FORCEnet*	248.203	2.146	2.237	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	252.586

Note

Project Unit 2363: Remote Sensing Capability Development (RSCD) Program (Proj 2363) has been realigned from PE 0604231N to PE 0304785N starting in FY24.

A. Mission Description and Budget Item Justification

The Tactical Command System upgrades the Navy's Command, Control, Communications, Computer and Intelligence (C4I) systems and processes C4I information for all warfare mission areas including planning, direction and reconstruction of missions for peacetime, wartime and times of crises.

Programs will implement digital system-of-systems engineering by using tools such as Model Based System Engineering (MBSE) and Digital Twins to create adaptable digital models to optimize system engineering from design, development and testing to operations and sustainment. Programs will use Development, Security and Operations (DevSecOps) processes for continuous development, integration, testing and deployment, along with common platform services such as Agile Core Services (ACS), for faster fielding of capability. Overall program development efforts include the investigation of emerging technologies through study, development and associated testing for feasibility of program insertion.

(Proj 0486) Tactical Support Center: The Tactical Mobile program provides agile evolutionary systems and equipment upgrades to support the Maritime Patrol and Reconnaissance Force Commanders with the capability to plan, direct and control the tactical operations of Maritime Patrol and Reconnaissance Aircraft and other

assigned units within their respective area of responsibility. Looking ahead, TacMobile provides critical mission planning and reach-back capabilities between the Maritime Patrol and Reconnaissance Aircraft, primarily the P-8A/Poseidon, and MQ-4C/Triton, and the Maritime Intelligence Surveillance and Reconnaissance Enterprise. These operations include littoral, open ocean, and over land long-dwell surveillance, anti-surface warfare, over-the-horizon targeting, counter-drug operations, power projection, antisubmarine warfare, mining, search and rescue, indications and warning, realtime full motion video collection and streaming/ dissemination, and special operations. The missions are supported by Tactical Operations Centers, Mobile Tactical Operations Centers, and Fly Away Kits.

(Proj 2343,2345,2363) Tactical METOC Applications; Fleet METOC Equipment, and Remote Sensing Capability Development (RSCD): The Air/Ocean Equipment Engineering (AOEE) projects provide new capabilities to support naval combat forces. This program engineers and developmentally tests organic and remote sensors, communication interfaces, and processing and display devices. This equipment is engineered to measure, ingest, store, process, distribute and display conditions of the physical environment that are essential to the optimum employment and performance of naval warfare systems. AOEE also engineers capabilities for shipboard and shore-based tactical systems. A major area of focus for the AOEE program is to provide the engineering development of specialized equipment and measurement capabilities that are intended to monitor specific conditions of the physical environment in hostile and remote areas in response to fleet demand signals for increased sensing capability and capacity to support battlespace collections and prediction on short to intermediate time scales. With such capabilities, the war fighters' situational awareness of the operational effects of the physical environment are made more certain. Efforts include investigation of emerging technologies through study, development, and associated testing for feasibility of program insertion. Major emphasis areas include the Naval Integrated Tactical Environmental System Next Generation (NITES-Next) project (2343), Littoral Battlespace Sensors - Unmanned Undersea Vehicles (LBS-UUV) and the Environmental Satellite Receiver Processor (ESRP) project (2345), and the Remote Sensing Capability Development (RSCD) project (2363).

(Proj 3050) Deployable Joint Command and Control (DJC2) provides a self-contained, standardized, rapidly deployable, modular, scalable, and reconfigurable joint command and control (C2) capability to designated Geographic Combatant Commands (GCCs). DJC2 is the materiel solution to Defense Planning Guidance that called for the development of standing Joint Task Forces (JTFs) with a deployable C2 capability. DJC2 will ensure that Joint Force Commanders (JFC) are equipped, as well as trained and organized, to carry out their C2 responsibilities. DJC2 provides GCCs and JFCs a mission critical, integrated family of systems with which to plan, control, coordinate, execute, and assess operations. It is designed to deploy rapidly, set up within hours, and quickly provide necessary C2 mission and collaboration functionality across the full spectrum of JTF operations. The DJC2 has also been deployed in support of Humanitarian Assistance and Disaster Relief (HA/DR) efforts. The capability is intended for all levels of conflict and will be reconfigurable to meet specific GCC and JTF mission requirements. This capability is interoperable with higher and adjacent echelons of command (to include coalition allies) as well as with supporting elements to include joint forces.

(Proj 3260) Naval Operational Business Logistics Enterprise (NOBLE) is the logistics information technology family of systems comprised of the Naval Operational Supply System (NOSS), the Naval Maintenance, Repair, and Overhaul (N-MRO), and supporting capabilities to include a common platform hosting environment and data exchange solutions. NOBLE enables combat lethality by generating and sustaining Navy and Marine Corps force readiness for operational commanders afloat and ashore, providing the foundational capability to keep ships driving, planes flying, and weapons firing from an equipment Operational Availability (Ao) perspective. NOBLE is the centerpiece of the Fleet's strategic imperative to improve Sailor, unit and group maintenance self-sufficiency combat operations in a communications and access-denied arena. NOBLE's mission is to provide the Navy and Marine Corps with an integrated, scalable, and cybersecure capability that supports the management of logistical information, material, and funds required to maintain and operate ships, submarines, and aircraft. The NOBLE FoS (Family of Systems) will provide direct support to warfighter readiness with maintenance, supply, and financial capabilities. These capabilities include enhanced situational awareness, planning, execution,

personnel administration, and management of maintenance and supply logistics and business functions to ships/submarines, aviation squadrons, shore operational sites, and expeditionary units with a total user base exceeding 150,000. The NOBLE architecture will meet current and emerging demands for cyber security, enable Financial Improvement and Audit Readiness (FIAR), drive efficiency into Navy logistics and aviation and maritime maintenance mission requirements, and eliminate over 700 application/database servers. NOBLE FoS will deploy to the Consolidated Afloat Networks and Enterprise Services (CANES) afloat, Department of the Navy (DON) commercial cloud computing environments ashore, and US Marine Corps operating environments.

(Proj 3324) Navy Air Operations Command and Control (NAOC2): NAOC2 integrates and tests Air Force program of record systems that provide an integrated and scalable planning system for standardized, secure, and automated decision support for Air Force, Joint, and Allied commanders worldwide. These programs provide automated air operations planning, execution management and intelligence capabilities at the Force level to include fleet commanders, numbered fleet commanders, Commander Carrier Strike Groups, Commander Expeditionary Strike Groups, Commander Landing Forces, and Joint Task Force Commanders. NAOC2 includes Theater Battle Management Core System (TBMCS) and Kessel Run Applications Kit for Enterprise Navy (KRAKEN). KRAKEN (when fielded) will provide rapid, agile delivery of capabilities to the fleet by commercial cloud infrastructure using Development, Security, Operations (DevSecOps) cloud native applications. KRAKEN is comprised of multiple tactical software applications that will provide continuous iterate delivery of software to shipboard and shore users. It will also align with the Joint C2 Reference Architecture (JC2RA) such as Consolidated Afloat Networks and Enterprise Services (CANES). KRAKEN is not natively compatible with Navy Information Technology (IT) infrastructure, such as CANES, and requires a significant level of system integration. Continuation of Navy integration and test efforts will significantly enhance the ability of the Joint Force Air Component Commander and Combined Air Operations Center personnel to plan daily air operations including strike, airlift, offensive/defensive air, missile defense, and refueling missions in support of combat operations. Developmental Testing is continuous and operates in parallel with the DevSecOps construct. KRAKEN will be continued for new technology insertion into Navy infrastructure network and hardware in support of Naval Air C2 and Net Enabled Weapons system integration. KRAKEN addresses the requirement of war fighter distributed planning and execution processes along with significantly improving Joint interoperability. TBMCS continues a hardware transition to CANES. Currently, TBMCS is the key system that is used to conduct real world air planning in the Joint and Navy environments. KRAKEN will replace TBMCS while bringing more flexibility to the war fighter.

(Proj 9123) FORCEnet: The mission of this effort is to support Portfolio Health Assessments (PHA). PHA analyzes the Navy's Information Warfare portfolio by focusing on the total capability to support Navy missions rather than on individual program health. PHA looks at more than the Naval Tactical Grid/Information Warfare (NTG/IW) portion of the "Killchain". PHA uses Mission Engineering Architecture, M&S, and Analysis techniques to integrate the sensors, platforms, weapons, and operators into the NTG/IW architecture to ensure that the Navy delivers to mission level capability.

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Navy					Date: March 2023
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*			R-1 Program Element (Number/Name) PE 0604231N *I COMMAND AND CONTROL*		
B. Program Change Summary ($ in Millions)	**FY 2022**	**FY 2023**	**FY 2024 Base**	**FY 2024 OCO**	**FY 2024 Total**
Previous President's Budget	122.913	143.575	92.652	-	92.652
Current President's Budget	118.895	143.573	87.457	-	87.457
Total Adjustments	-4.018	-0.002	-5.195	-	-5.195
• Congressional General Reductions	-	-0.002			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.058	0.000			
• SBIR/STTR Transfer	-3.959	0.000			
• Program Adjustments	0.000	0.000	-6.592	-	-6.592
• Rate/Misc Adjustments	-0.001	0.000	1.397	-	1.397

Change Summary Explanation

Technical: Not applicable.

SCHEDULE:

Fleet METOC Equipment (Project 2345): Program is pursuing a Commercial Off the Shelf (COTS) based solution for Environmental Satellite Receiver Processor (ESRP) Afloat Modernization with integration initiatives vice a new development effort.

Tactical Support Center (Project 0486): NAVAIR is designing and developing an interim P-8A Increment 3 ground station (PGS) that leverages TacMobile Inc 2.1 communications infrastructure at fixed site Tactical Operations Centers (TOC). This PGS instantiation meets a subset of the TacMobile requirements.

TacMobile Inc 3 leverages the PGS architecture with the focus on increased mobility (Size, Weight, Power and Cooling (SWaP-C)) for the Mobile Tactical Operations Centers (MTOC) to meet the complete TacMobile Inc 3 requirements.

The TacMobile Inc 3 system will be aligned to support P-8A Inc 3 Block 2 ECP 6 and ECP 7 as well as Advanced Airborne Sensor (AAS) capabilities, adding an additional security enclave, while offsetting the size/weight/power/cooling (SWaP-C) requirements to support worldwide expeditionary Maritime Patrol and Reconnaissance Force (MPRF) Aircraft operations. The TacMobile Increment 3 integration continues to ensure interoperability with emerging MPRF Aircraft and Sensors, streamline Pre-Flight Insertion Data (PID) processing, and facilitate the MPRF Intelligence Surveillance and Reconnaissance and Anti-Submarine Warfare data Processing - Exploitation - Dissemination (PED) capabilities within the TacMobile systems.

The PGS partial solution will be recapitalized where feasible and incorporated into the full TacMobile Increment 3 design solution. Leveraging PGS will require some TacMobile redesign to achieve a smaller, lightweight, scalable Network-centric Services Oriented Architecture (SOA) configuration.

FY2024 funding will commence SECRET Enclave System Integration Testing (SIT) in preparation for FY25 Capability Package 1 (CP-1) (SECRET Domain) Developmental Testing (DT); and will Procure an Expeditionary Higher Than SECRET shelter test bed for Lab development and integration of Capability Package 2 (CP-2) (Higher Than SECRET Domains) commencing in FY25 in preparation for SIT in late FY25, and Developmental Testing (DT) and Operational Assessment in FY26.

Naval Operational Business Logistics Enterprise (NOBLE) (Project 3260): The schedule changes are due to the ASN(RDA)/OPNAV N9 Senior Steering Group of July 29,2022 approved changes to the NOSS and N-MRO acquisition strategy, capability and fielding plan which provides agile delivery of N-MRO and NOSS capabilities to meet emergent fleet operational priorities to Naval Operational Forces and user communities. An updated N-MRO and NOSS acquisition strategy approved for separate N-MRO and NOSS Build 1 and 2 standalone operational testing (i.e. User Acceptance Testing (UAT)), in Fiscal Year (FY) 2023 and FY 2024 respectfully. The N-MRO and NOSS standalone schedule changes are due to increased application integration to support backward compatibility with multiple legacy systems to improve cybersecurity to meet current threat profiles; increased application data migration/cleansing; and requisite cybersecurity testing necessary to support their respective N-MRO and NOSS UAT.

Remote Sensing Capability Development (RSCD) (Project 2363): Schedule ends in FY 2023 due to realignment of Proj 2363 from PE 0604231N to PE 0304785N starting in FY 2024.

FUNDING:

Tactical Support Center (Project 0486): TacMobile 3.0 increase of $0.107M from FY2023 to FY2024 is to address additional Cyber accreditation activities integral to the TacMobile Increment 3 Capability Package-1 Engineering Development process.

Fleet METOC Equipment (Project 2345): Environmental Satellite Receiver Processor (ESRP) increase of $0.023M from FY 2023 to FY 2024 will continue to assess new technology in support of ESRP modernization.

Fleet METOC Equipment (Project 2345): Littoral Battlespace Sensors - Unmanned Undersea Vehicles (LBS-UUV) increase of $0.119M from FY2023 to FY2024 will increase the amount of engineering design studies and Engineering Change Proposals (ECP's) required to keep pace with current requirements.

Tactical METOC Applications (Project 2343): NITES-Next increase of $0.295 from FY 2023 to FY 2024 will increase software development efforts to support cloud infrastructure and operational capabilities identified by the Fleet and defined by stakeholders through quarterly capability prioritization meetings.

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Navy	Date: March 2023
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0604231N *I COMMAND AND CONTROL*

Remote Sensing Capability Development (RSCD) (Project 2363): Decrease of $4.745M from FY 2023 to FY 2024 is attributed to realignment of Proj 2363 from PE 0604231N to PE 0304785N starting in FY 2024.

Naval Operational Business Logistics Enterprise (NOBLE) (Project 3260):
Naval Operational Supply System (NOSS): Investment required to complete NOSS Other Transaction Authority (OTA) standalone Build 2 functional enhancements, complete FMC, and UAT targeted for Submarine Readiness Squadron(s) 32 and 34 in FY24. Investment required to commence NOSS OTA Build 3/4 planning, prototyping and configuration, integration, testing, training, and site installation activities with N-MRO. Decrease in funding profile from FY23 to FY24 is due to leveraging Build 1configuration work done in FY23.

Naval Maintenance, Repair, and Overhaul (N-MRO): Investment required to complete N-MRO Build 2 functional enhancements, complete Functional Manager Certification (FMC). and UAT targeted for One (1) Naval Aviation Squadron, and One (1) Guided Missile Destroyer (DDG) in FY24. Investment required to commence N-MRO OTA Build 3/4 planning, prototyping and configuration, integration, testing, training, and site installation activities with NOSS. Deliver the common platform hosting environment and data exchange solution to support LOG IT deployments. Decrease in funding profile from FY23 to FY24 is due to cost savings obtained through negotiated N-MRO licensing costs, and leveraging Build 1 configuration work done in FY23.

Navy Air Operations Command and Control (NAOC2) (Project 3324): FY24 budget increase funds test strategy development and automated functional tests for Kessel Run Applications Kit for Enterprise Navy (KRAKEN).

FORCEnet (Project 9123) Decrease of $2.237M between FY23 and FY24 is attributed to a Naval Information Warfare and Architecture vertical reduction, eliminating funding beginning in FY24.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604231N / *COMMAND AND CONTROL*	Project (Number/Name) 0486 / *Tactical Support Center*	

COST ($ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
0486: *Tactical Support Center*	154.195	5.406	6.060	6.167	-	6.167	12.627	14.836	12.546	12.798	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

TacMobile is the Ground Station that brings Enterprise Command, Control, Communications, Computers and Intelligence, Surveillance and Reconnaissance (C4ISR) to the Maritime Patrol and Reconnaissance Force (MPRF) community.

TacMobile is a long-running, multi-year acquisition program that provides Command, Control, Communications, Computers, and Intelligence (C4I) for Navy's MPRF. From within Tactical Operations Centers (TOC) at well-supported airfields, TacMobile provides theater Anti-Submarine Warfare (ASW) and Intelligence Surveillance Reconnaissance (ISR) commanders a common tactical picture while providing pre-flight and post-flight support to manned and unmanned MPRF aircraft. From within Mobile Tactical Operations Centers (MTOC), TacMobile supports manned MPRF aircraft at the tactical edge of operations. TacMobile Fly-Away Kits (FAK) support manned MPRF aircraft in short-duration expeditionary
settings.

Services provided include analysis and correlation of diverse sensor information; data management support; command decision aids; rapid data communication; mission planning, evaluation and reach-back dissemination of surveillance data and threat alerts to operational users ashore and afloat, and to the Maritime Intelligence Surveillance and Reconnaissance Environment.

The TacMobile program uses an evolutionary development strategy consisting of Capability Packages to meet new and emergent Fleet requirements, while retaining current capabilities. These capability packages consist of a three phase approach: Capability Package One (CP-1) which addresses SECRET domain only (planned fielding in FY25); Capability Package Two (CP-2) meets the Minimum Viable Product (MVP) (Initial Operational Capability (IOC) in FY28); and Capability Package Three (CP-3) will meet full Capability Production Document (CPD) requirements. These Capability Packages are planned and resourced to support the MPRF Family of Systems aircraft: P-8A Poseidon aircraft modernization and upgrades; and Advanced Airborne Sensor (AAS).

In FY 2024, TacMobile will finalize the Secret enclave Capability Package 1 (CP-1) System Integration Testing (SIT) and Fleet operational assessment, and commence core TacMobile systems engineering, design and development for the Higher Than Secret (HTS) enclave Capability Package 2 (CP-2). Activities include closing out design activities for a full Increment 3 capability that leverages portions of the NAVAIR P-8 Ground Station (PGS) interim solution integrated into a smaller form factor to support P-8A operations. Commence SECRET Enclave System Integration Testing (SIT) and will procure an Expeditionary Higher than SECRET shelter test bed for Lab development and integration in support of Capability Package 2 (CP-2) commencing in FY25.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: TacMobile Increment 3.0	5.406	6.060	6.167	0.000	6.167

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 0486 / *Tactical Support Center*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Articles:	-	-	-	-	-
FY 2023 Plans: INTEROPERABILITY: Complete Engineering Assessment for TacMobile Inc 3 architecture, that incorporates and leverages appropriate influences from PMA290 P-8 Ground Station (PGS) architecture and design decisions; Commence System Integration, and begin to conduct Systems Integration Testing (SIT) in preparation for an FY25 Capability Package 1 (CP-1) Developmental Test (DT), and laying the groundwork for the Capability Package 2 (CP-2) Operational Assessment in FY 27. TacMobile Inc 3 Systems Integration includes TacMobile redesign of the P-8A Ground Station to achieve a smaller, lightweight, scalable Network-centric Services Oriented Architecture (SOA) configuration, implementing increased mobility to achieve TacMobile Increment 3 requirements for Mobile Tactical Operations Centers (MTOC) Size, Weight, Power and Cooling (SWaP-C). ***FY 2024 Base Plans:*** INTEROPERABILITY: Incorporate aircraft interfaces from the PMA290 P-8 Ground Station (PGS) architecture; enhanced track management; improved deployable communications and aircraft media handling capability; continue TacMobile Increment 3 HTS design and development towards a Milestone C decision in 3QFY27. SYSTEM UPGRADES: Incorporate fleet and engineering change requests - mobile communication improvements via commercial SATCOM and cellular, mission planning improvements; automated distribution of data to external sources; MUOS capability - into Inc 3 design (Inc 3.0); Implement smaller form factor upgrades which will address obsolescence and technological change - remote communications capability; user based workstations/monitors/peripherals and network devices; mobile shelters and energy efficient environmental control units (ECUs); communication modem and antenna replacement. ***FY 2024 OCO Plans:*** N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:*** FY2023 to FY2024 funding increase is to address additional Cyber accreditation activities which is integral to the TacMobile Increment 3 Capability Package-1 Engineering Development process.					
Accomplishments/Planned Programs Subtotals	5.406	6.060	6.167	0.000	6.167

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 0486 / *Tactical Support Center*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
• OPN/2906: *TacMobile*	18.791	21.761	32.717	-	32.717	40.759	43.054	35.883	36.713	Continuing	Continuing

Remarks

Reflects the related portion of LI 2906 - does not display the entire line item funding.

D. Acquisition Strategy

Evolutionary Acquisition - TacMobile is the ground station program of record that supports the P-8A Poseidon and MQ-4C Triton pre- and post-flight C4I requirements and Inflight Command and Control support. These ground stations provide critical reach-back capabilities between the airborne platforms and the Maritime Intelligence Surveillance and Reconnaissance (ISR) Enterprise/ decision makers. TacMobile consists of fixed-site Tactical Operations Centers (TOCs), Mobile TOCs (MTOCs), and Fly Away Kits (FAKs). TacMobile is comprised of 23 subsystems that utilize an evolutionary development strategy consisting of incremental upgrades synchronized to match increased P-8A capabilities, while retaining current functionality and readiness. TacMobile Increment 3 will incorporate support for P-8A Poseidon Increment 3 ECP 6/7 and other Maritime Patrol and Reconnaissance Force (MPRF) Family of Systems (FoS) aircraft systems, as they transition to a DEVSECOPS Architecture.

TacMobile Increment 3 will be developed and fielded in a series of capability package upgrades. Capability Package One (CP-1) will field a GENSER SECRET Technical Refresh to TacMobile Increment 2.1 as a risk reduction toward Increment 3. Capability Package 2 (CP-2) will incorporate and field GENSER SECRET and TOP SECRET Increment 3 capabilities to fully support the P-8A Increment 3 ECP 6/7 aircraft.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604231N / *COMMAND AND CONTROL*	Project (Number/Name) 0486 / *Tactical Support Center*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary Hardware Development	C/CPFF	NIWC LANT; SRC; Charleston, SC; Pax River, MD : Charleston; SC; Pax River, MD	17.751	0.000		0.000		0.000		-		0.000	0.000	17.751	-
Systems Engineering	C/CPFF	NIWC LANT; SRC; Charleston, SC; Pax River, MD : Charleston, SC; Pax River, MD; San Diego, CA	40.788	3.070	Dec 2021	3.594	Dec 2022	3.786	Dec 2023	-		3.786	Continuing	Continuing	Continuing
Training Development	C/CPFF	NIWC LANT; SRC; Charleston, SC; Pax River, MD : Charleston, SC; Pax River, MD; San Diego, CA	3.461	0.000		0.000		0.000		-		0.000	0.000	3.461	-
Software Development	C/CPFF	NIWC LANT; SRC; Charleston, SC; Pax River, MD : Charleston, SC; Pax River, MD; San Diego, CA	52.366	0.000		0.000		0.000		-		0.000	0.000	52.366	-
Integrated Logistics Support	C/CPFF	NIWC LANT; SRC; Charleston, SC; Pax River, MD : Charleston, SC; Pax River, MD	1.840	0.043	Dec 2021	0.043	Dec 2022	0.043	Dec 2023	-		0.043	Continuing	Continuing	Continuing
Configuration Management	C/CPFF	NIWC LANT; SRC; Charleston, SC; Pax River, MD : Charleston, SC; Pax River, MD	1.440	0.044	Dec 2021	0.044	Dec 2022	0.044	Dec 2023	-		0.044	Continuing	Continuing	Continuing
Technical Data	C/CPFF	NIWC LANT; SRC; Charleston, SC; Pax River, MD :	2.484	1.499	Dec 2021	1.629	Dec 2022	1.544	Dec 2023	-		1.544	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 0486 / *Tactical Support Center*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Charleston, SC; Pax River, MD													
Studies & Analyses	C/CPFF	NIWC LANT; SRC; Charleston, SC; Pax River, MD : Pax River, MD; San Diego CA	1.085	0.400	Dec 2021	0.400	Dec 2022	0.400	Dec 2023	-		0.400	Continuing	Continuing	Continuing
		Subtotal	121.215	5.056		5.710		5.817		-		5.817	Continuing	Continuing	N/A

Remarks

FY24 funding increase in Systems engineering reflects commencement of Systems Integration, and Systems integration testing.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	C/CPIF	NIWC LANT; SRC; Charleston, SC; Pax River, MD : Charleston, SC; Pax River, MD	5.293	0.000		0.000		0.000		-		0.000	0.000	5.293	-
Operational Test & Evaluation (OT&E)	MIPR	OPTEVFOR; NIWC LANT; SRC : Jacksonville, FL;Patuxent River MD	6.020	0.000		0.000		0.000		-		0.000	0.000	6.020	-
		Subtotal	11.313	0.000		0.000		0.000		-		0.000	0.000	11.313	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604231N / *COMMAND AND CONTROL*	Project (Number/Name) 0486 / *Tactical Support Center*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Contractor Engineering Support	C/CPIF	SRC; BAH; Deloitt : Charleston, SC; Pax River, MD; San Diego, CA	4.200	0.195	Dec 2021	0.195	Dec 2022	0.195	Dec 2023	-		0.195	Continuing	Continuing	Continuing
Government Engineering Support	WR	NIWC LANT : Charleston, SC; Pax River, MD	2.755	0.107	Dec 2021	0.107	Dec 2022	0.107	Dec 2023	-		0.107	Continuing	Continuing	Continuing
Program Management Support	C/CPIF	NIWC PAC;PMW 750; SRC; BAH; Deloitte : Charleston, SC; San Diego, CA	14.330	0.023	Dec 2021	0.023	Dec 2022	0.023	Dec 2023	-		0.023	Continuing	Continuing	Continuing
Travel	WR	PMW750 : San Diego, CA	0.382	0.025	Dec 2021	0.025	Dec 2022	0.025	Dec 2023	-		0.025	Continuing	Continuing	Continuing
		Subtotal	21.667	0.350		0.350		0.350		-		0.350	Continuing	Continuing	N/A

	Prior Years	FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	154.195	5.406		6.060		6.167		-		6.167	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 0486 / *Tactical Support Center*

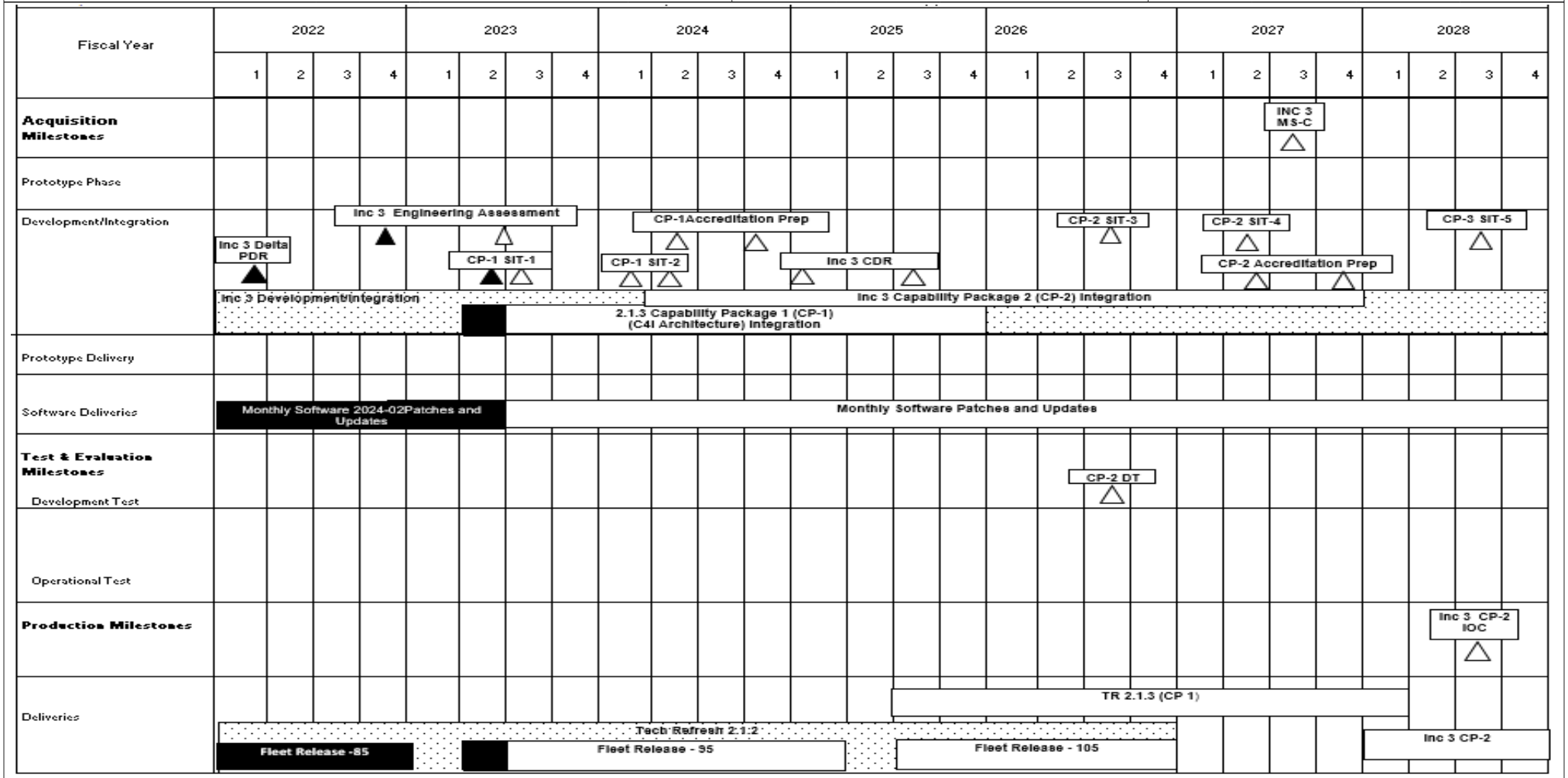


Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 0486 / *Tactical Support Center*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 0486				
Inc 3 MS-C	3	2027	3	2027
Preliminary Design Review (Increment 3)	1	2022	1	2022
Inc 3 Engineering Assessment	4	2022	2	2023
CP-1 Accreditation Prep	2	2024	4	2024
Systems Integration Test (CP-2) SIT 3	3	2026	3	2026
Systems Integration Test (CP-2) SIT 4	2	2027	2	2027
Systems Integration Test (CP-3) SIT 5	3	2028	3	2028
Development/Integration (Increment 3)	1	2022	4	2028
Systems Integration Test (CP-1) SIT 1	2	2023	3	2023
Systems Integration Test (CP-1) SIT 2	1	2024	2	2024
Critical Design Review (Increment 3)	1	2025	3	2025
CP-2 Accreditation Prep	2	2027	4	2027
Inc 3 Capability Package (CP-2) Integration	2	2024	4	2027
2.1.3 Capability Package (CP-1) Integration	2	2022	4	2024
Inc 2.1.X Software Patch Delivery (Monthly)	1	2022	4	2028
Developmental Test (CP-2)	3	2026	3	2026
IOT&E Inc 3	1	2027	2	2027
IOC CP 2	3	2028	3	2028
Tech Refresh 2.1.3 CP 1 (Inc 3 Risk Reduction)	1	2025	4	2028
Tech Refresh Delivery (TR 2.1.2)	1	2022	4	2026
TR 2.1.2 Fleet Release 85	1	2022	4	2022

Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 0486 / *Tactical Support Center*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
TR 2.1.2 Fleet Release 95	3	2023	1	2025
TR 2.1.2 Fleet Release 105	2	2025	4	2026
Tech Refresh Delivery (TR 2.1.3) (CP-1)	3	2025	1	2028
Inc 3 Capability Package (CP-2) Delivery	1	2028	4	2028

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604231N / *COMMAND AND CONTROL*	Project (Number/Name) 2343 / *Tactical METOC Applications*	

COST ($ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
2343: *Tactical METOC Applications*	23.256	11.279	12.976	13.271	-	13.271	12.724	12.900	12.987	13.250	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Tactical Meteorology and Oceanography (METOC) Applications Project provides cyber secure operational effects decision aid capabilities for Navy and Marine Corps warfighters in the context of Joint Operations in a net-centric environment. This project funds the agile software development of the Naval Integrated Tactical Environmental System - Next Generation (NITES-Next) program of record. The NITES-Next program identifies and transitions state-of-the-art decision support software technologies from the government and commercial industry's technology base, and then demonstrates and validates these capabilities before fielding. These software decision support tools provide platform, sensor, communications, and weapon systems performance assessments for warfighters in terms of their littoral and deep-strike battlespace environments. These assessments allow mission planners and warfighters, from Unit to Theater level, to optimize their sensor employment on airborne, surface, and subsurface platforms in support of Naval Composite Warfare mission areas including Undersea Warfare (USW), Anti-Submarine Warfare (ASW), Mine Warfare (MIW), Amphibious Warfare (AMW), Anti-Surface Warfare (ASUW), Anti-Air Warfare (AAW), Strike Warfare (STW), Expeditionary Warfare (EXW), Electronic Warfare (EW), Information Operations (IO), Intelligence Operations (INT), Non-Combat Operations (NCO), Command, Control, Communication (CCC), and Naval Special Warfare (NSW). Performance assessments leading to improvements in operational and tactical control are conducted through a two-tiered approach: 1) METOC Decision Aids and, 2) Operational Effects Decision Aids (OEDAs). METOC Decision Aids consist of a series of analysis tools which characterize the physical environment conditions of the battlespace based on the best set of physical environment data available at the time (i.e., some combination of historical and/or real-time (or near real-time) in-situ, and numerically modeled forecast data). OEDAs use the METOC Decision Aid information by fusing it with relevant, often-classified, sensor and target data to predict how weapons and sensor systems will perform. Performance results are displayed in tabular and graphic formats integrated into net-centric visualization tools for use by mission planners, and combat/weapon system operators to develop localization plans, USW/AAW/ASUW screens, STW profiles, and AMW ingress and egress points. METOC Decision Aids and OEDAs use data obtained through direct interfaces to Navy combat systems. Cyber secure capabilities are a current emphasis required to characterize and/or predict sensor and weapons system performance in the highly complex littoral environments in support of regional conflict scenarios. It addresses multi-warfare areas, particularly shallow water ASW, NSW, and missile and air defense/strike capabilities.

Funding supports development and integration efforts for METOC systems to generate and collect METOC data and fuse multiple intelligence inputs to more robustly characterize and predict tactical atmospheric and oceanographic conditions. This integrated METOC picture will support real-time battlespace awareness of propagation conditions affecting signals across the electromagnetic spectrum. METOC data will be fused with other intelligence data and automatically provided to shipboard combat systems to inform kinetic and non-kinetic fires.

FY24 funding supports development of highest priority capabilities as outlined in the Software Acquisition Pathway (SWP) Capability Prioritization Meetings. Capabilities to include the Forecaster Toolkit Ashore capability, Tides and Currents forecasting, and Solar and Lunar forecasting enhancements. Other high priority items include METOC data integration efforts with programs and projects in need of METOC data. The program will continue to maintain and update its Risk Management Framework (RMF) Authority to Operate (ATO).

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 2343 / *Tactical METOC Applications*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Naval Integrated Tactical Environmental System - Next Generation (NITES-Next)	11.279	12.976	13.271	0.000	13.271
Articles:	-	-	-	-	-
FY 2023 Plans: - Continue to support transition to Adaptive Acquisition Framework, Software Acquisition Pathway (SWP) by delivering software releases at least annually, but more frequently over time through an ongoing software development process. - Engage external stakeholders through quarterly capability prioritization meetings to align with operational Fleet user needs and requests. - Continue planning for requirements through iterative software development, annual acquisition strategy reviews, and continuous engineering reviews. - Continue development capability efforts and releases will focus on cloud infrastructure, the JWICS enclave, data ordering refactor, littoral characterization, and/or capabilities deemed emergent by stakeholders. - Continue to manage RMF ATOs and participate in multiple Consolidated Afloat Networks and Enterprise Services (CANES) Application Integration (AI) System Integration Test (SIT) events throughout the FY. - Continue its transition into the Overmatch Software Armory (OSA) in order to develop, test, and field in a more iterative and rapid manner.					
FY 2024 Base Plans: - Continue to execute in the SWP allowing the program to develop and field the highest priority capabilities the fleet needs today. - Continue increased fleet engagement activities to support pre-deployment events and support greater clarity for future capabilities. - Continue planning for requirements through iterative software development, annual acquisition strategy reviews, and continuous engineering reviews. - Continue development efforts on cloud infrastructure, JWICS enclave, and emergent capabilities deemed by stakeholders. - Continue management of RMF ATOs and participate in CANES AI SIT events throughout the FY. - Continue its transition into the OSA in order to develop, test, and field in a more iterative and rapid manner. - Begin METOC data integration efforts with programs and projects to support the warfighter.					
FY 2024 OCO Plans: N/A					
FY 2023 to FY 2024 Increase/Decrease Statement:					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 2343 / *Tactical METOC Applications*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
No significant changes from FY 2023 to FY 2024.					
Accomplishments/Planned Programs Subtotals	11.279	12.976	13.271	0.000	13.271

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
• OPN/4226: *Meteorological Equipment*	13.687	15.175	19.703	-	19.703	16.850	15.856	16.142	16.592	Continuing	Continuing

Remarks

D. Acquisition Strategy

The NITES-Next program acquisition, management and contracting strategies are to support the Tactical Meteorology & Oceanography (METOC) Applications project to continue the development of state-of-the-art software capabilities that provide sensor, communication, and weapon system performance assessment capabilities for open ocean and littoral operating environments. The Department of the Navy (DoN) maintains management oversight of the NITES-Next program's acquisition and contracting strategies.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604231N / *COMMAND AND CONTROL*	Project (Number/Name) 2343 / *Tactical METOC Applications*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
NITES-Next Software Development	WR	NIWC Pacific : San Diego, CA	5.195	2.428	Nov 2021	2.841	Nov 2022	3.108	Nov 2023	-		3.108	Continuing	Continuing	Continuing
NITES-Next Software Development	C/FP	SAIC : Virginia	4.309	2.241	Jan 2022	2.487	Jan 2023	2.536	Jan 2024	-		2.536	Continuing	Continuing	Continuing
NITES-Next Software Development	WR	NIWC Atlantic : South Carolina	0.188	0.094	Oct 2021	0.160	Oct 2022	0.161	Oct 2023	-		0.161	Continuing	Continuing	Continuing
NITES-Next Software Development	C/IDIQ	Various : Various	8.992	4.181	May 2022	4.951	May 2023	4.937	May 2024	-		4.937	Continuing	Continuing	Continuing
		Subtotal	18.684	8.944		10.439		10.742		-		10.742	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
NITES-Next Architecture	C/FP	SAIC : Virginia	2.611	1.355	Jan 2022	1.503	Jan 2023	1.500	Jan 2024	-		1.500	Continuing	Continuing	Continuing
		Subtotal	2.611	1.355		1.503		1.500		-		1.500	Continuing	Continuing	N/A

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
NITES-Next Government Technical Oversight	WR	NIWC PAC : San Diego, CA	0.799	0.400	Nov 2021	0.444	Nov 2022	0.442	Nov 2023	-		0.442	Continuing	Continuing	Continuing
NITES-Next Program Management	C/FP	BAH : San Diego CA	1.162	0.580	Jan 2022	0.590	Jan 2023	0.587	Jan 2024	-		0.587	Continuing	Continuing	Continuing
		Subtotal	1.961	0.980		1.034		1.029		-		1.029	Continuing	Continuing	N/A

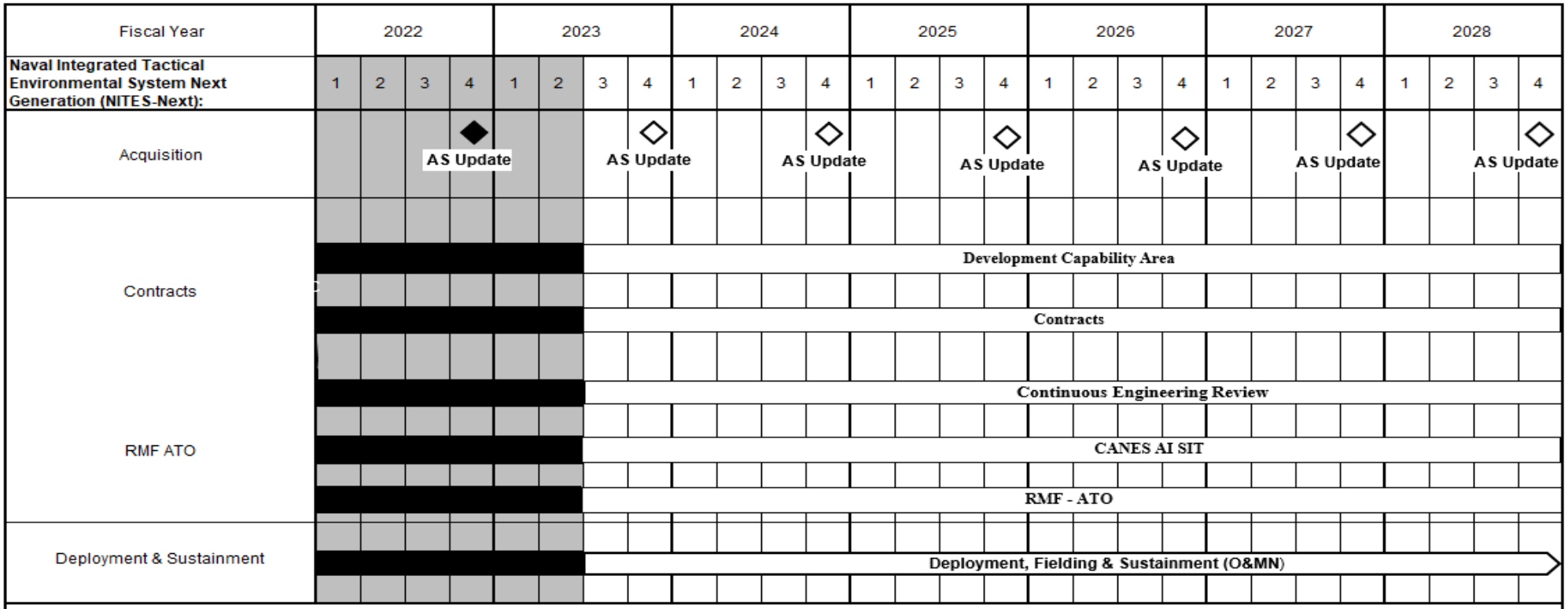
	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	23.256	11.279		12.976		13.271		-		13.271	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604231N / *COMMAND AND CONTROL*	Project (Number/Name) 2343 / *Tactical METOC Applications*	

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 2343 / *Tactical METOC Applications*



Acronyms: AS = Acquisition Strategy. ATO = Authority to Operate. CANES = Consolidated Afloat Networks and Enterprise Services. SIT = System Integration Test. AI = Application Integration. RMF = Risk Management Framework.

Note:

Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 2343 / *Tactical METOC Applications*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Naval Integrated Tactical Environmental System - Next Generation (NITES-Next)				
Acquisition: Acquisition Strategy Update 1	4	2022	4	2022
Acquisition: Acquisition Strategy Update 2	4	2023	4	2023
Acquisition: Acquisition Strategy Update 3	4	2024	4	2024
Acquisition: Acquisition Strategy Update 4	4	2025	4	2025
Acquisition: Acquisition Strategy Update 5	4	2026	4	2026
Acquisition: Acquisition Strategy Update 6	4	2027	4	2027
Acquisition: Acquisition Strategy Update 7	4	2028	4	2028
Contracts: Development Capability Area	1	2022	4	2028
Contracts: Contracts	1	2022	4	2028
Contracts: Continuous Engineering Review	1	2022	4	2028
RMF ATO: CANES AI SIT	1	2022	4	2028
RMF ATO: RMF - ATO	1	2022	4	2028
RMF ATO: Deployment and Sustainment: Deployment, fielding and Sustainment (OMN)	1	2022	4	2028

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604231N / *COMMAND AND CONTROL*	Project (Number/Name) 2345 / *Fleet METOC Equipment*	

COST ($ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
2345: *Fleet METOC Equipment*	2.590	0.548	0.498	0.640	-	0.640	0.613	0.503	0.514	0.524	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Littoral Battlespace Sensing - Unmanned Undersea Vehicles (LBS-UUV) project provides for the engineering and manufacturing development of sensors, communication interfaces, processing and display meteorological and oceanographic (METOC) equipment. This equipment is designed to provide future mission capabilities for war fighters to measure, ingest, store, process, distribute and display METOC parameters and derived products.

This project also exploits new government off-the-shelf/commercial off-the-shelf technologies, tactical sensors and web enablement for the Navy's computer-based tactical shipboard and shore capability used to predict and assess the operational effects of the physical environment on the performance of platforms, weapons and sensor systems. This project includes development of warfare specific mission planning modules to support unmanned systems with integration of data from environmental and tactical sensor systems, model forecast information and Geospatial Information & Services Databases. This project also supports development of autonomous environmental sensing systems for situational awareness and tactical decision aid/mission planner support, as well as iridium and advanced satellite communication integration in METOC sensor, vehicle control and mission planning systems that will be required to achieve Chief of Naval Operations (CNO) objectives for information dominance and decision superiority.

Major emphasis areas include Littoral Battlespace Sensing - Unmanned Undersea Vehicles (LBS-UUV) and the Environmental Satellite Receiver Processor (ESRP) program (comprised of ESRP AFLOAT (formerly AN/SMQ-11) and ESRP ASHORE (formerly AN/FMQ-17) systems).

FY24 funding for the Littoral Battlespace Sensing - Gliders (LBS-G) and LBS - Autonomous Undersea Vehicles (LBS-AUV) will focus on engineering design studies. Efforts will develop system upgrades via Engineering Change Proposals (ECP's) and correct any identified software and/or hardware deficiencies. Continue investigating potential capability improvements, such as, but not limited to, endurance (e.g. battery technology), autonomy (precise navigation with obstacle avoidance), communications (at depth), and advanced sensors (Conductivity Temperature Depth (CTD), optical clarity).

FY24 funding for Environmental Satellite Receiver Processor (ESRP) will support new technology assessments for ESRP modernization.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Littoral Battlespace Sensing - Unmanned Undersea Vehicle (LBS-UUV)	0.181	0.086	0.205	0.000	0.205
Articles:	-	-	-	-	-
FY 2023 Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 2345 / *Fleet METOC Equipment*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
- Continue engineering design studies for the Littoral Battlespace Sensing - Gliders (LBS-G) and Littoral Battlespace Sensors - Autonomous Undersea Vehicles (LBS-AUV). - Develop system upgrades via Engineering Change Proposals (ECP's) and correct any identified software and/or hardware deficiencies. - Continue investigating potential capability improvements, such as, but not limited to, endurance (e.g. battery technology, bio-fouling), autonomy (precise navigation with obstacle avoidance), communications (comms at depth), and advanced sensors (CTD, optical clarity). ***FY 2024 Base Plans:*** - Continue engineering design studies for the Littoral Battlespace Sensing - Gliders (LBS-G) and Littoral Battlespace Sensors - Autonomous Undersea Vehicles (LBS-AUV). - Continue to develop system upgrades via Engineering Change Proposals (ECP's) and correct any identified software and/or hardware deficiencies. - Continue investigating potential capability improvements, such as, but not limited to, endurance (e.g. battery technology, bio-fouling), autonomy (precise navigation with obstacle avoidance), communications (comms at depth), and advanced sensors (CTD, optical clarity). ***FY 2024 OCO Plans:*** N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:*** Increase of $0.119M from FY2023 to FY2024 will increase the amount of engineering design studies and Engineering Change Proposals (ECP's) required to keep pace with current requirements.					
Title: Environmental Satellite Receiver Processor (ESRP)	0.367	0.412	0.435	0.000	0.435
Articles:	-	-	-	-	-
FY 2023 Plans: - Continuing integration of ESRP systems in support of WSF-M, EWS-G, GOES-15, GOES-16, GOES-17 and EUMETSAT satellites. - Demonstrating ESRP Afloat modernization prototype for commercial SATCOM integration, test, and deploy. ***FY 2024 Base Plans:*** - Support new technology assessments for Environmental Satellite Receiver Processor (ESRP) modernization. - Demonstrate ESRP modernization prototype for commercial SATCOM integration, test, and deploy. ***FY 2024 OCO Plans:***					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 2345 / *Fleet METOC Equipment*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:*** Environmental Satellite Receiver Processor (ESRP) Increase of $0.023M from FY 2023 to FY 2024 will continue to assess new technology in support of ESRP modernization.					
Accomplishments/Planned Programs Subtotals	0.548	0.498	0.640	0.000	0.640

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
• OPN/4226: *Meteorological Equipment*	13.687	15.175	19.703	-	19.703	16.850	15.856	16.142	16.592	Continuing	Continuing

Remarks

D. Acquisition Strategy

The Littoral Battlespace Sensing - Unmanned Undersea Vehicles (LBS-UUV) acquisition strategy is to develop and engineer equipment to acquire Meteorological and Oceanographic (METOC) data in order to improve the accuracy of global and regional scale METOC forecast models.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 2345 / *Fleet METOC Equipment*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Littoral Battlespace Sensing - Gliders Development	Various	Teledyne Brown : Alabama	0.096	0.088	Mar 2022	0.043	Mar 2023	0.000		-		0.000	0.000	0.227	-
Littoral Battlespace Sensing - Autonomous Undersea Vehicle Development	Various	HII : Pocasset, MA	0.096	0.093	Mar 2022	0.043	Mar 2023	0.205	Mar 2024	-		0.205	Continuing	Continuing	Continuing
Environmental Satellite Receiver Processor (ESRP) - Development	SS/CPFF	Vertex : Indianapolis	0.698	0.367	Feb 2022	0.362	Mar 2023	0.435	Mar 2024	-		0.435	Continuing	Continuing	Continuing
Environmental Satellite Receiver Processor (ESRP) - Development	Various	The Mitre Corporation : Mc Lean Virginia	0.300	0.000		0.000		0.000		-		0.000	0.000	0.300	-
Environmental Satellite Receiver Processor (ESRP) - Development	Various	NIWC Pacific : San Diego, Ca	1.400	0.000		0.050	Mar 2023	0.000		-		0.000	0.000	1.450	-
		Subtotal	2.590	0.548		0.498		0.640		-		0.640	Continuing	Continuing	N/A

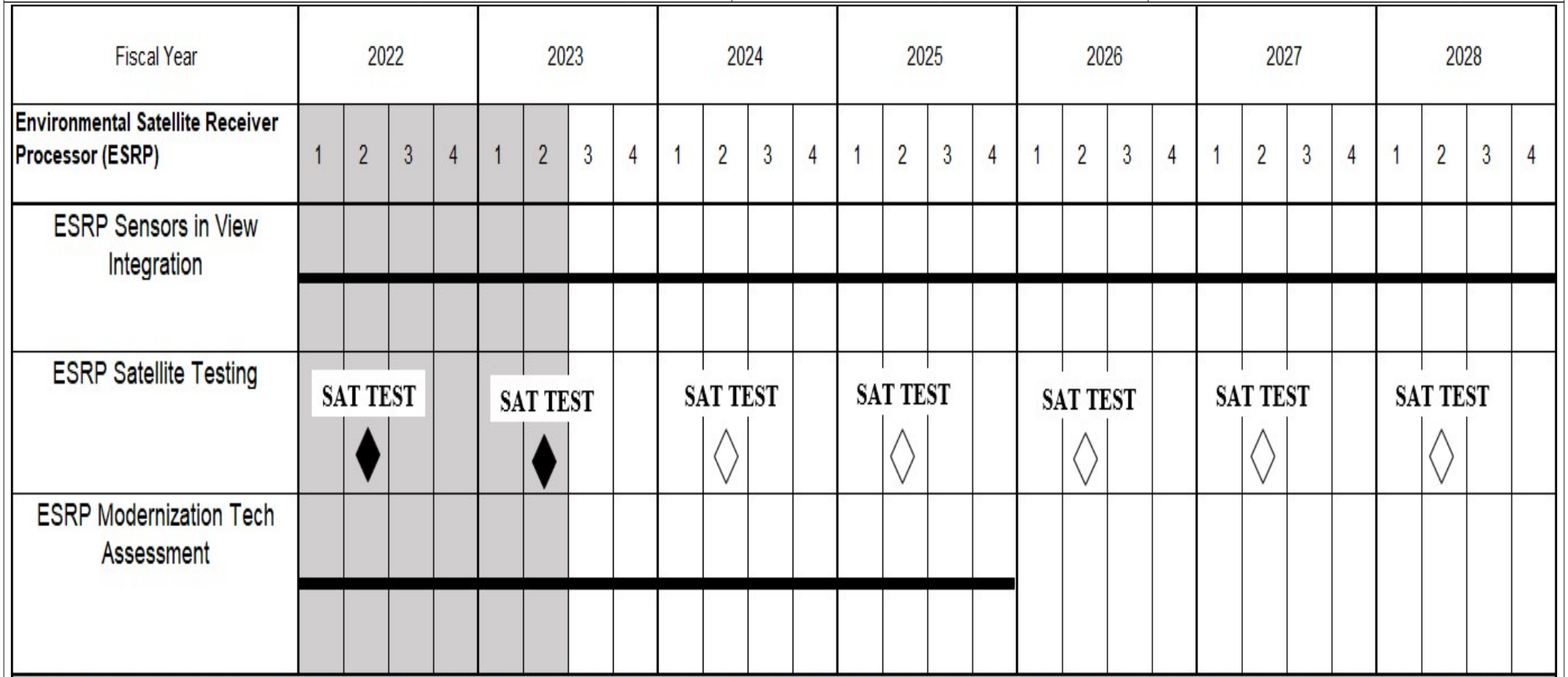
Remarks

Increase for HII from FY2023 to FY2024 will increase the amount of engineering design studies and Engineering Change Proposals (ECP's) required to keep pace with current requirements.

	Prior Years	FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	2.590	0.548		0.498		0.640		-		0.640	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 2345 / *Fleet METOC Equipment*



Notes: Program is pursuing a Commercial Off the Shelf (COTS) based solution for ESRP Afloat Modernization with integration initiatives vice a full development effort.

Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 2345 / *Fleet METOC Equipment*

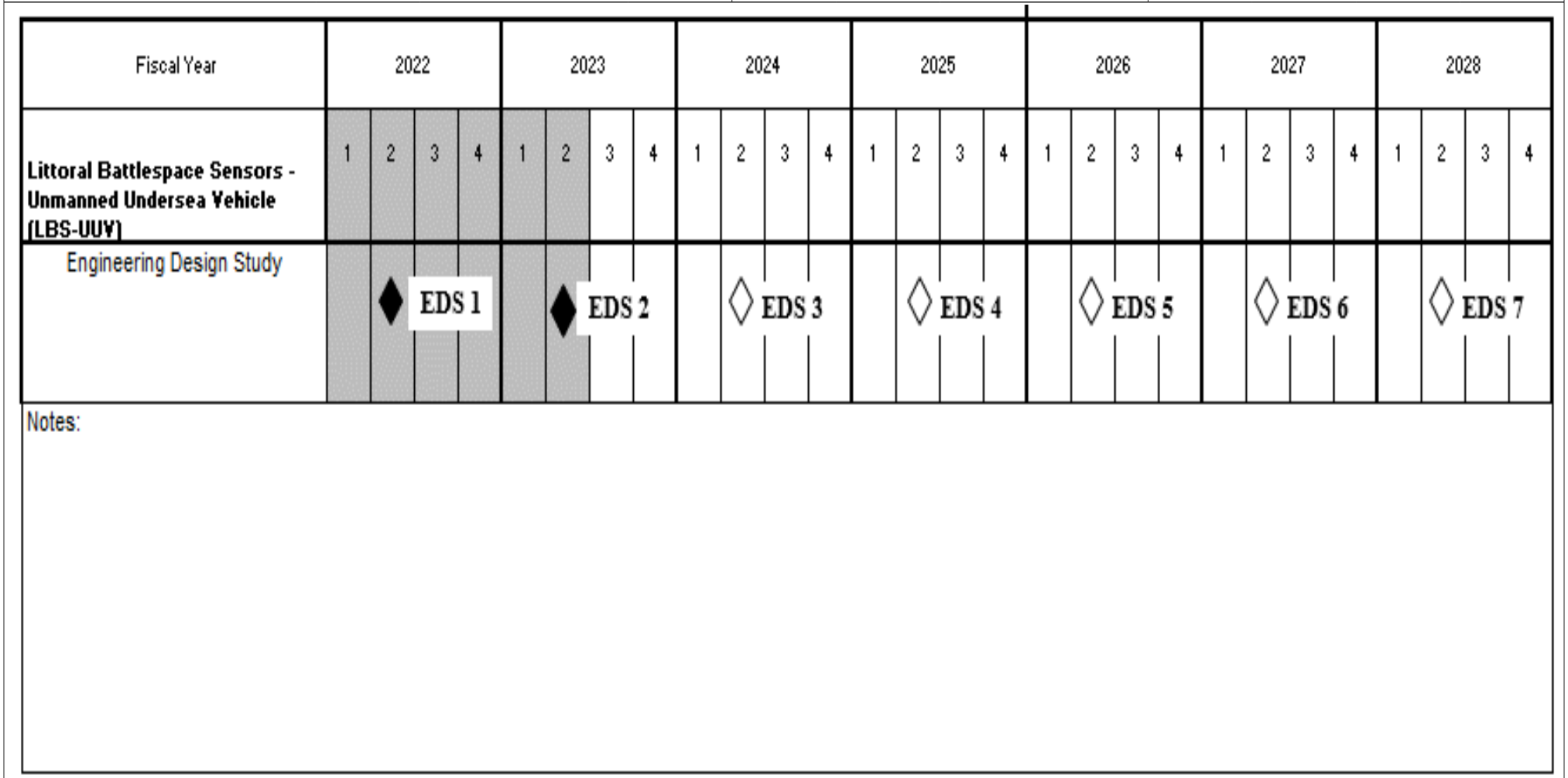


Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 2345 / *Fleet METOC Equipment*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Littoral Battlespace Sensors - Unmanned Undersea Vehicle (LBS-UUV)				
Engineering Design Study: Engineering Design Study 1	2	2022	2	2022
Engineering Design Study: Engineering Design Study 2	2	2023	2	2023
Engineering Design Study: Engineering Design Study 3	2	2024	2	2024
Engineering Design Study: Engineering Design Study 4	2	2025	2	2025
Engineering Design Study: Engineering Design Study 5	2	2026	2	2026
Engineering Design Study: Engineering Design Study 6	2	2027	2	2027
Engineering Design Study: Engineering Design Study 7	2	2028	2	2028
Environmental Satellite Receiver Processor (ESRP)				
ESRP Sensors in View Integration: ESRP Sensors in View Integration	1	2022	4	2028
ESRP Satellite Testing: ESRP Satellite Testing (FY22)	2	2022	2	2022
ESRP Satellite Testing: ESRP Satellite Testing (FY23)	2	2023	2	2023
ESRP Satellite Testing: ESRP Satellite Testing (FY24)	2	2024	2	2024
ESRP Satellite Testing: ESRP Satellite Testing (FY25)	2	2025	2	2025
ESRP Satellite Testing: ESRP Satellite Testing (FY26)	2	2026	2	2026
ESRP Satellite Testing: ESRP Satellite Testing (FY27)	2	2027	2	2027
ESRP Satellite Testing: ESRP Satellite Testing (FY28)	2	2028	2	2028
ESRP Modernization Tech Assessment: ESRP Modernization Tech Assessment	1	2022	4	2025

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy										Date: March 2023		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604231N / *COMMAND AND CONTROL*				Project (Number/Name) 2363 / *Remote Sensing Capability Development*			
COST ($ in Millions)	**Prior Years**	**FY 2022**	**FY 2023**	**FY 2024 Base**	**FY 2024 OCO**	**FY 2024 Total**	**FY 2025**	**FY 2026**	**FY 2027**	**FY 2028**	**Cost To Complete**	**Total Cost**
2363: *Remote Sensing Capability Development*	12.489	4.318	4.745	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	21.552
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

Remote Sensing Capability Development (RSCD) Program (Proj 2363) has been realigned from PE 0604231N to PE 0304785N starting in FY24.

A. Mission Description and Budget Item Justification

The Remote Sensing Capabilities Development (RSCD) project integrates and fields capabilities to enhance maritime domain awareness using non-organic sensors under the Top Secret / Sensitive Compartmented Information (TS/SCI) SEAHORSE process. The system addresses Fleet Integrated Prioritized Capability List (IPCL) and capabilities gaps for increasing Battlespace Awareness and Intelligence Surveillance and Reconnaissance (ISR) capabilities to support Fleet Tasking, Collections, Processing, Exploitation, and Dissemination (TCPED) processes. RSCD employs automation concepts to produce intelligence with significantly less Fleet manpower than traditional processes. The project is also working to shorten and streamline the SEAHORSE TCPED cycle to meet speed of service and accuracy requirements. RSCD incorporates state of the art software in the form of machine/continuous learning technologies to achieve a significant reduction of false alarm rates. SEAHORSE is relied upon by INDOPACOM, CENTCOM, and EUCOM to provide intelligence solutions (detail held at a higher classification). RSCD supporting the transition of SEAHORSE to a fully integrated, cloud-based, operational system.

FY 2024 funding will continue the planned data collection, algorithm enhancement, algorithm performance assessment, and system integration activities.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Remote Sensing Capability Development (RSCD)	4.318	4.745	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2023 Plans: - Continue to collect data in various weather and sea states to broaden the range of environmental conditions, reduce uncertainty in environmental prediction, and generate training data sets for Machine Learning. - Continue to conduct software algorithm performance analysis and enhancements to automatically detect oceanographic phenomena and data repository to test and evaluate, create performance metrics, and understand computational performance of algorithms and technologies that enhance the fleet's battle space awareness. - Continue to conduct software algorithm enhancements to address improvements identified through performance analysis.					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 2363 / *Remote Sensing Capability Development*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
- Continue to integrate software algorithm enhancements. - Continue to coordinate TCPED process amongst inter-agencies to support Navy Missions. ***FY 2024 Base Plans:*** Remote Sensing Capability Development (RSCD) Program (Proj 2363) has been realigned from PE 0604231N to PE 0304785N starting in FY24. ***FY 2024 OCO Plans:*** N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:*** Decrease of $4.745M from FY 2023 to FY 2024 is attributed to realignment of Proj 2363 from PE 0604231N to PE 0304785N starting in FY24.					
Accomplishments/Planned Programs Subtotals	4.318	4.745	0.000	0.000	0.000

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The Remote Sensing Capabilities Development (RSCD) acquisition strategy is being managed by the Program Executive Office Command, Control, Communications, Computers and Intelligence (PEO C4I) and Space, via a Project Definition Document (PDD) construct for acquisition rigor and oversight.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604231N / *COMMAND AND CONTROL*	Project (Number/Name) 2363 / *Remote Sensing Capability Development*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
RSCD Software Development	C/FFP	SAIC : Viriginia	2.018	0.480	Feb 2022	0.512	Feb 2023	0.000		-		0.000	0.000	3.010	-
RSCD Software Development	WR	NRL : Various	3.141	0.475	Nov 2021	0.607	Nov 2022	0.000		-		0.000	0.000	4.223	-
RSCD Software Development	C/FFP	Cubic/Valiant : San Diego, CA	3.223	0.968	Apr 2022	1.073	Apr 2023	0.000		-		0.000	0.000	5.264	-
		Subtotal	8.382	1.923		2.192		0.000		-		0.000	0.000	12.497	N/A

Remarks

Remote Sensing Capability Development (RSCD) Program (Proj 2363) has been realigned from PE 0604231N to PE 0304785N starting in FY24.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
RSCD Architecture	WR	NIWC PAC : San Diego, CA	1.518	0.718	Nov 2021	0.766	Nov 2022	0.000		-		0.000	0.000	3.002	-
		Subtotal	1.518	0.718		0.766		0.000		-		0.000	0.000	3.002	N/A

Remarks

Remote Sensing Capability Development (RSCD) Program (Proj 2363) has been realigned from PE 0604231N to PE 0304785N starting in FY24.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	WR	NIWC PAC : San Diego, CA	2.589	0.000		0.000		0.000		-		0.000	0.000	2.589	-
Developmental Test & Evaluation (DT&E)	C/FFP	Cubic/Valiant : San Diego, CA	0.000	0.959	Apr 2022	1.021	Apr 2023	0.000		-		0.000	0.000	1.980	-
Developmental Test & Evaluation (DT&E)	WR	DOE : Albuquerque, NM	0.000	0.718	Nov 2021	0.766	Nov 2022	0.000		-		0.000	0.000	1.484	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604231N / *COMMAND AND CONTROL*	Project (Number/Name) 2363 / *Remote Sensing Capability Development*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	2.589	1.677		1.787		0.000		-		0.000	0.000	6.053	N/A

Remarks

Remote Sensing Capability Development (RSCD) Program (Proj 2363) has been realigned from PE 0604231N to PE 0304785N starting in FY24.

	Prior Years	FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	12.489	4.318		4.745		0.000		-		0.000	0.000	21.552	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 2363 / *Remote Sensing Capability Development*

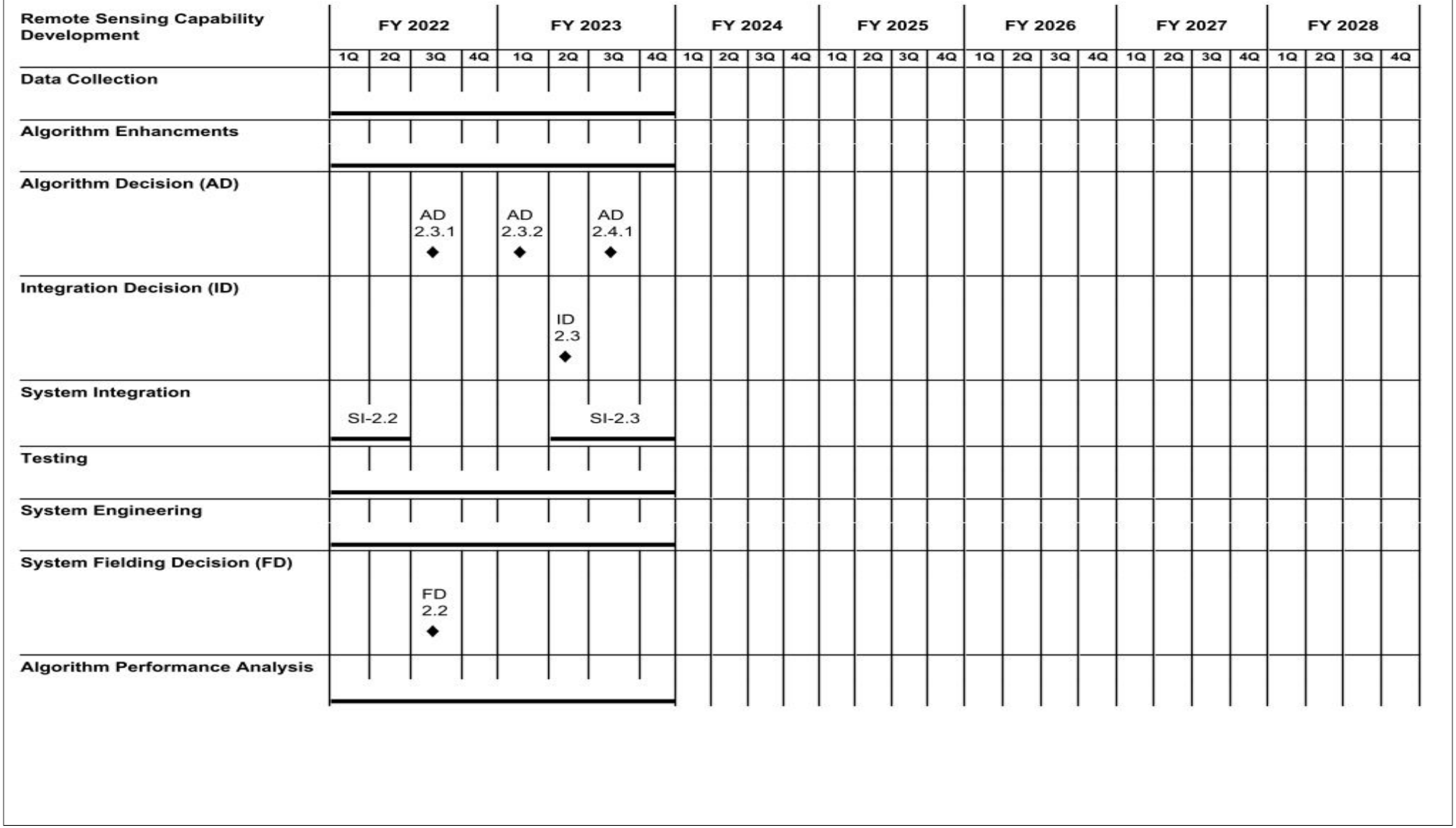


Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 2363 / *Remote Sensing Capability Development*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Remote Sensing Capability Development				
Data Collection:	1	2022	4	2023
Algorithm Enhancments:	1	2022	4	2023
Algorithm Decision (AD): Algorithm Decision 2.3.1	3	2022	3	2022
Algorithm Decision (AD): Algorithm Decision 2.3.2	1	2023	1	2023
Algorithm Decision (AD): Algorithm Decision 2.4.1	3	2023	3	2023
Integration Decision (ID): Integration Decision 2.3	2	2023	2	2023
System Integration: System Integration 2.2	1	2022	2	2022
System Integration: System Integration 2.3	2	2023	4	2023
Testing:	1	2022	4	2023
System Engineering:	1	2022	4	2023
System Fielding Decision (FD): Fielding Decision 2.2	3	2022	3	2022
Algorithm Performance Analysis:	1	2022	4	2023

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604231N / *COMMAND AND CONTROL*	Project (Number/Name) 3050 / *Deployable JT Command and Control*	

COST ($ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
3050: *Deployable JT Command and Control*	5.728	2.480	3.840	3.785	-	3.785	3.558	3.612	3.669	3.744	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Deployable Joint Command and Control (DJC2) provides a self-contained, standardized, rapidly deployable, modular, scalable, and reconfigurable joint command and control (C2) capability to designated Geographic Combatant Commands (GCCs). DJC2 is the materiel solution to Defense Planning Guidance that called for the development of standing Joint Task Forces (JTFs) with a deployable C2 capability. DJC2 will ensure that Joint Force Commanders (JFC) are equipped, as well as trained and organized, to carry out their C2 responsibilities. DJC2 provides GCCs and JFCs a mission critical, integrated family of systems with which to plan, control, coordinate, execute, and assess operations. It is designed to deploy rapidly, set up within hours, and quickly provide necessary C2 mission and collaboration functionality across the full spectrum of JTF operations. The DJC2 has also been deployed in support of Humanitarian Assistance and Disaster Relief (HA/DR) efforts. The capability is intended for all levels of conflict and will be reconfigurable to meet specific GCC and JTF mission requirements. This capability is interoperable with higher and adjacent echelons of command (to include coalition allies) as well as with supporting elements to include joint forces.

FY24 funding supports development efforts for systems engineering, integration, and DJC2 Test Bed. Focus areas include emerging cyber security technologies and cloud hosting environments.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Systems Engineering & Integration	1.163	1.728	1.703	0.000	1.703
Articles:	-	-	-	-	-
FY 2023 Plans: Expanding capabilities of common infrastructure to increase speed to capability through containerization technologies and utilization of Development, Security, and Operations (DevSecOps) in order to rapidly deliver mission tailored applications and cloud based services. Developing Tier 1 capabilities to support multi-cloud environments and implementing software defined wide area network (SD-WAN) technologies to increase cyber posture. Evaluating technologies to support migration to Impact level 6 (IL6) and Impact Level 7 (IL7) cloud environments.					
FY 2024 Base Plans: Continue to expand capabilities of common infrastructure to increase speed to capability through containerization technologies and utilization of Development, Security, and Operations (DevSecOps) in order to rapidly deliver mission tailored applications and cloud based services. Further develop Tier 1 capabilities					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 3050 / *Deployable JT Command and Control*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
to support multi-cloud environments and software defined wide area network (SD-WAN) technologies. Initiate evaluation of technologies to support migration to Internet Protocol version 6 (IPv6), 5G, and Department of Defense cloud environments. ***FY 2024 OCO Plans:*** N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:*** FY24 slight decreases continues support for systems engineering, integration efforts for emerging cyber security technologies and cloud hosting environments.					
Title: DJC2 RDT&E Test Bed ***Articles:*** ***FY 2023 Plans:*** Test technologies to support containerization of applications and services, as well as migration to Impact level 6 (IL6) and Impact Level 7 (IL7) cloud environments. Testing Tier 1 capabilities to support multi-cloud environments and software defined wide area network (SD-WAN) technologies to increase cyber posture. ***FY 2024 Base Plans:*** Continue to test technologies that support containerization of applications and services to increase speed to capability. Continue to test and evaluate Tier 1 capabilities to support multi-cloud environments and software defined wide area network (SD-WAN) technologies. ***FY 2024 OCO Plans:*** N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:*** FY24 slight decrease continues to support systems engineering, integration efforts for emerging cyber security technologies and cloud hosting environments.	1.317 -	2.112 -	2.082 -	0.000 -	2.082 -
Accomplishments/Planned Programs Subtotals	2.480	3.840	3.785	0.000	3.785

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
• OPN /2906: *Tactical/ Mobile C4I Systems/DJC2*	18.790	27.434	52.026	-	52.026	65.664	71.364	61.095	62.492	Continuing	Continuing

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 3050 / *Deployable JT Command and Control*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost

Remarks

D. Acquisition Strategy

This RDT&E line supports an evolutionary acquisition strategy. The intent of this strategy is to: develop a system based upon a current understanding of joint requirements; rapidly field systems based upon those requirements; analyze operational utilization of the systems; and roll the results of the analysis into periodic upgrades of the systems to maintain currency and maximize operational effectiveness. Efforts include investigation of emerging technologies through study, development, and associated testing for feasibility of program insertion. The baseline configuration is based upon existing Command, Control, Communications, Computers, & Intelligence (C4I) systems, scaled to the Combatant Command level. The follow-on configurations will include newly developed capabilities based on emergent, joint requirements and operational feedback based upon utilization of earlier delivered systems. Ultimately, the goal is to perform quick and affordable integration of emergent transformational Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) technologies in support of information warfare and overall efforts required to pace the threat. This is accomplished via technical analysis and engineering efforts associated with implementation of new technology to enable rapid introduction of new products and technology, prevent obsolescence, and end of support issues enhancements via incremental software & hardware upgrades delivered on annual build release.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604231N / *COMMAND AND CONTROL*	Project (Number/Name) 3050 / *Deployable JT Command and Control*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering	WR	NSWC : Panama City, FL	0.746	0.298	Dec 2021	0.467	Dec 2022	0.454	Dec 2023	-		0.454	Continuing	Continuing	Continuing
Hardware/Software Development	C/CPAF	GTRI : Atlanta, GA	1.285	0.521	Dec 2021	0.812	Dec 2022	0.795	Dec 2023	-		0.795	Continuing	Continuing	Continuing
		Subtotal	2.031	0.819		1.279		1.249		-		1.249	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Integration	WR	NSWC : Panama City, FL	0.707	0.298	Dec 2021	0.449	Dec 2022	0.454	Dec 2023	-		0.454	Continuing	Continuing	Continuing
		Subtotal	0.707	0.298		0.449		0.454		-		0.454	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	WR	NSWC : Panama City, FL	1.707	0.769	Dec 2021	1.204	Dec 2022	1.174	Dec 2023	-		1.174	Continuing	Continuing	Continuing
Operational Test & Evaluation (OT&E)	WR	NSWC : Panama City, FL	0.958	0.446	Dec 2021	0.676	Dec 2022	0.681	Dec 2023	-		0.681	Continuing	Continuing	Continuing
		Subtotal	2.665	1.215		1.880		1.855		-		1.855	Continuing	Continuing	N/A

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management	WR	NIWC PAC : San Diego, CA	0.325	0.148	Dec 2021	0.232	Dec 2022	0.227	Dec 2023	-		0.227	Continuing	Continuing	Continuing
		Subtotal	0.325	0.148		0.232		0.227		-		0.227	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604231N / *COMMAND AND CONTROL*	Project (Number/Name) 3050 / *Deployable JT Command and Control*	

	Prior Years	FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	5.728	2.480		3.840		3.785		-		3.785	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 3050 / *Deployable JT Command and Control*

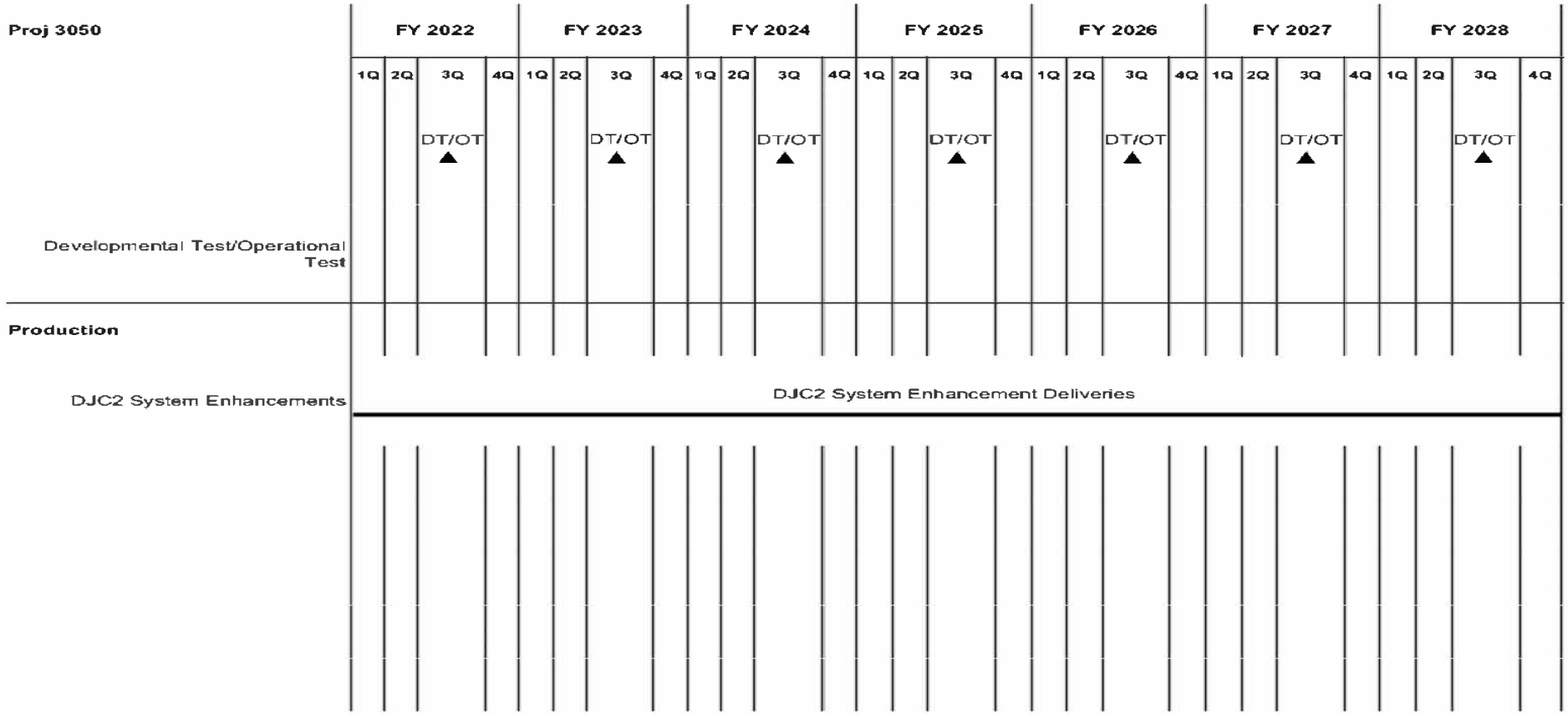


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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 3050 / *Deployable JT Command and Control*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 3050				
Developmental Test/Operational Test FY 2022	3	2022	3	2022
Developmental Test/Operational Test FY 2023	3	2023	3	2023
Developmental Test/Operational Test FY 2024	3	2024	3	2024
Developmental Test/Operational Test FY 2025	3	2025	3	2025
Developmental Test/Operational Test FY 2026	3	2026	3	2026
Developmental Test/Operational Test FY 2027	3	2027	3	2027
Developmental Test/Operational Test FY 2028	3	2028	3	2028
Production: DJC2 System Enhancements: DJC2 System Enhancement Deliveries	1	2022	4	2028

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604231N / *COMMAND AND CONTROL*	Project (Number/Name) 3260 / *Naval Operations Business Logistics Enterprise (NOBLE)*	

COST ($ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
3260: *Naval Operations Business Logistics Enterprise (NOBLE)*	164.234	92.032	112.477	62.791	-	62.791	49.082	42.165	37.365	38.115	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Naval Operational Business Logistics Enterprise (NOBLE) is the logistics information technology family of systems comprised of the Naval Operational Supply System (NOSS), the Naval Maintenance, Repair, and Overhaul (N-MRO), and supporting capabilities to include the common platform hosting environment and data exchange solutions for Logistics Information Technology systems and applications. NOBLE enables combat lethality by generating and sustaining Navy and Marine Corps force readiness for operational commanders afloat and ashore, providing the foundational capability to keep ships driving, planes flying, and weapons firing from an equipment Operational Availability (Ao) perspective. NOBLE is the centerpiece of the Fleet's strategic imperative to improve Sailor, unit and group maintenance self-sufficiency combat operations in a communications and access-denied arena.

NOBLE's mission is to provide the Navy and Marine Corps with an integrated, scalable, and cybersecure capability that supports the management of logistical information, material, and funds required to maintain and operate ships, submarines, and aircraft.

Funding provides for separate NOSS and N-MRO functional enhancements, site installation activities, data migration and validation, training development, and execution of NOSS and N-MRO standalone Build 2 Government Independent Validation and Verification (IV&V), Functional Managers Certification (FMC), and operational testing (i.e. User Acceptance Testing (UAT); NOSS software licensing; and commence NOSS and N-MRO Build 3/4 planning, prototyping and configuration, integration , testing, training, and site installation activities to support naval operational supply, and Aviation intermediate and Maritime nuclear organizational level maintenance activities. Funding also provides for licensing and delivery of the common platform hosting environment and data exchange solutions.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Naval Operational Supply System (NOSS)	33.427	30.479	11.857	0.000	11.857
Articles:	-	-	-	-	-
FY 2023 Plans: Complete standalone NOSS Build 1 prototyping and configuration; conclude backward compatibility with multiple legacy systems integration to improve cyber security to meet current threat profiles; laboratory integration with interface partners; data migration and validation activities; obtained a NOSS Authority to Operate (ATO); completed training materials; completed site installation activities; completed Government IV&V; and complete Functional Managers Certification (FMC) and complete operational User Acceptance Testing (UAT) efforts for					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 3260 / *Naval Operations Business Logistics Enterprise (NOBLE)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
One (1) Central Issue Facility (CIF). Continue NOSS Build 2, configuration, and integration with Navy Financial Systems. ***FY 2024 Base Plans:*** Complete NOSS Build 2 laboratory testing with interface partners, training materials, site installation activities, data migration and validation activities to support Government IV&V, FMC, and UAT efforts for Submarine Readiness Squadrons 32 and 34. Commence Build 3/4 planning, prototyping and configuration, integration, testing, training, and site installation activities to support naval operational supply integration with N-MRO. ***FY 2024 OCO Plans:*** N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:*** The NOSS Build 1 (completed in FY23) has been recognized as the investment being leveraged, thus resulting in a decrease of RDT&E development necessary to complete the remaining NOSS Build 2 of configuration, integration, and testing.					
Title: Naval Maintenance, Repair, and Overhaul (N-MRO)	58.605	81.998	50.934	0.000	50.934
Articles:	-	-	-	-	-
FY 2023 Plans: Complete N-MRO Build 1 prototyping and configuration. Complete training, site installation activities; data migration and validation activities; and requisite cybersecurity testing necessary in order to support backward compatibility with multiple legacy systems to improve cyber security to meet current threat profiles. Application integration within the Consolidated Afloat Network Enterprise Services (CANES), the Navy ashore cloud, and the USMC operating environments; obtain a N-MRO Authority to Operate (ATO); Government IV&V, Functional Managers Certification (FMC), and operational testing (i.e. User Acceptance Testing (UAT) in support of (1) Aviation squadron, one (1) USMC squadron, and one (1) DDG. ***FY 2024 Base Plans:*** Complete N-MRO Build 2 functional enhancements configuration, laboratory testing with interface partners, training materials, site installation activities, data migration and validation activities to support Government IV&V, FMC, and UAT. Commence Build 3/4 planning, prototyping and configuration, integration, testing, training, and site installation activities to support integration with NOSS to support Aviation intermediate and Maritime					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 3260 / *Naval Operations Business Logistics Enterprise (NOBLE)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
nuclear organizational level maintenance activities. Deliver the common platform hosting environment and data exchange solution to support LOG IT deployments. ***FY 2024 OCO Plans:*** N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:*** The standalone N-MRO Build 1 completed the functionality necessary to support the N-MRO Build 2 configuration, and the decrease from FY23 to FY24 recognizes the previous FY23 investment, thus resulting in a decrease of RDT&E development necessary to complete integration, and testing. The decrease is also a result of the cost savings obtained through negotiated N-MRO licensing costs.					
Accomplishments/Planned Programs Subtotals	92.032	112.477	62.791	0.000	62.791

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
• OPN/2611: *Naval Tact Cmd Supt Sys (NTCSS)*	14.439	19.038	15.374	-	15.374	17.536	17.845	18.194	18.610	Continuing	Continuing

Remarks

D. Acquisition Strategy

NOBLE has employed the use of competitive Other Transaction Authority (OTA). Software development/configuration will be comprised of multiple builds to include the ability to utilize mobile computing devices, each with increasing net-centric services capability. NOBLE leverages Commercial Off The Shelf (COTS) software programs. Hardware infrastructure will be provided by CANES, Integrated Shipboard Network System (ISNS), Navy Marine Corps Intranet (NMCI), Next Generation Enterprise Network (NGEN), OneNET (the OCONUS (outside of continental United States) network), and the Department of Navy commercial cloud computing environments, and US Marine Corps environments.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 3260 / *Naval Operations Business Logistics Enterprise (NOBLE)*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
NOME Software Development	MIPR	PEO STRI : Orlando, FL	6.011	0.000		0.000		0.000		-		0.000	0.000	6.011	-
NOME Software Development/Infrastucture	C/CPFF	Palantir : Palo Alto, CA	3.500	0.000		0.000		0.000		-		0.000	0.000	3.500	-
NAMS Software Development	MIPR	PEO STRI : Orlando, FL	4.912	0.000		0.000		0.000		-		0.000	0.000	4.912	-
NOSS Software Development/Infrastucture	C/CPFF	Palantir : Palo Alto, CA	4.143	0.000		0.000		0.000		-		0.000	0.000	4.143	-
NOSS Software Development	MIPR	PEO STRI : Orlando, FL	39.731	24.867	Oct 2021	22.738	Oct 2022	10.857	Oct 2023	-		10.857	Continuing	Continuing	Continuing
NAMS Software Development/Infrastucture	C/CPFF	Palantir : Palo Alto, CA	3.500	0.000		0.000		0.000		-		0.000	0.000	3.500	-
N-MRO Software Development	MIPR	PEO STRI : Orlando, FL	46.167	42.005	Oct 2021	76.669	Oct 2022	47.434	Oct 2023	-		47.434	Continuing	Continuing	Continuing
N-MRO Software Development/Infrastructure	C/CPFF	NIWC Atlantic : Norflok, VA	2.237	0.000		0.000		0.000		-		0.000	0.000	2.237	-
NOME System Engineering	WR	NIWC Atlantic : Norfolk, VA	2.940	0.000		0.000		0.000		-		0.000	0.000	2.940	-
NOSS System Engineering	WR	NIWC Atlantic : Norfolk, VA	4.591	3.000	Oct 2021	2.627	Oct 2022	0.000		-		0.000	0.000	10.218	-
NOSS System Engineering	WR	USFFC : Norfolk, VA	1.746	0.000		0.000		0.000		-		0.000	0.000	1.746	-
N-MRO System Engineering	WR	NIWC Atlantic : Norfolk, VA	2.147	5.000	Oct 2021	1.809	Oct 2022	2.000	Oct 2023	-		2.000	Continuing	Continuing	Continuing
NAMS Detailed BPR	WR	NAVAIR : Patuxent River, MD	0.849	0.000		0.000		0.000		-		0.000	0.000	0.849	-
NAMS System Engineering	WR	NIWC Atlantic : Norfolk, VA	3.690	0.000		0.000		0.000		-		0.000	0.000	3.690	-
N-MRO Detailed BPR	WR	NAVAIR : Patuxent River, MD	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
NAMS Analyis of Alternatives (AoA)	C/CPFF	Client Solution Architects LLC : San Diego, CA	0.537	0.000		0.000		0.000		-		0.000	0.000	0.537	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 3260 / *Naval Operations Business Logistics Enterprise (NOBLE)*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
NAMS Analyis of Alternatives (AoA)	MIPR	WHQS : Washington DC	0.539	0.000		0.000		0.000		-		0.000	0.000	0.539	-
NOSS Software Development/Infrastructure	C/CPFF	NAVAIR : Patuxent River, MD	0.000	0.000		4.000	Oct 2022	0.000		-		0.000	0.000	4.000	-
N-MRO Software Development/Infrastructure	C/CPFF	NAVAIR : Patuxent River, MD	0.000	3.000	Jun 2022	3.300	Oct 2022	0.000		-		0.000	0.000	6.300	-
		Subtotal	127.240	77.872		111.143		60.291		-		60.291	Continuing	Continuing	N/A

Remarks

Variance in cost from FY23 to FY24 is due to buying a two year unlimited user license for N-MRO in FY23, so no license cost in FY24. Additionally, both N-MRO and NOSS are leveraging the investments in FY23 for software configuration to offset the cost in FY24 for the build 2 efforts.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Prior Year Developmental Test & Evaluation Not Funded FYDP (PYDT&E)	WR	NAVSEA : Washington, D.C.	0.400	0.000		0.000		0.000		-		0.000	0.000	0.400	-
Prior Year Operational Test & Evaluation Not Funded FYDP (PYOT&E)	WR	COTF : Norfolk, VA	0.450	0.000		0.000		0.000		-		0.000	0.000	0.450	-
Prior Year Developmental Test & Evaluation Not Funded FYDP (PYDT&E)	WR	NAVAIR : Patuxent River, MD	0.450	0.000		0.000		0.000		-		0.000	0.000	0.450	-
Developmental Test & Evaluation (DT&E)	WR	NAVAIR : Patuxent River, MD	0.000	0.100	Oct 2021	0.000	Oct 2022	1.000	Oct 2023	-		1.000	Continuing	Continuing	Continuing
Operational Test & Evaluation (OT&E)	WR	COTF : Norfolk, VA	0.500	0.000	Oct 2021	0.420	Oct 2022	1.000	Oct 2023	-		1.000	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	WR	NAVSUP : Mechanicsburg, PA	0.700	0.200	Oct 2021	0.500	Oct 2022	0.500	Oct 2023	-		0.500	Continuing	Continuing	Continuing
		Subtotal	2.500	0.300		0.920		2.500		-		2.500	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 3260 / *Naval Operations Business Logistics Enterprise (NOBLE)*

Management Services ($ in Millions)

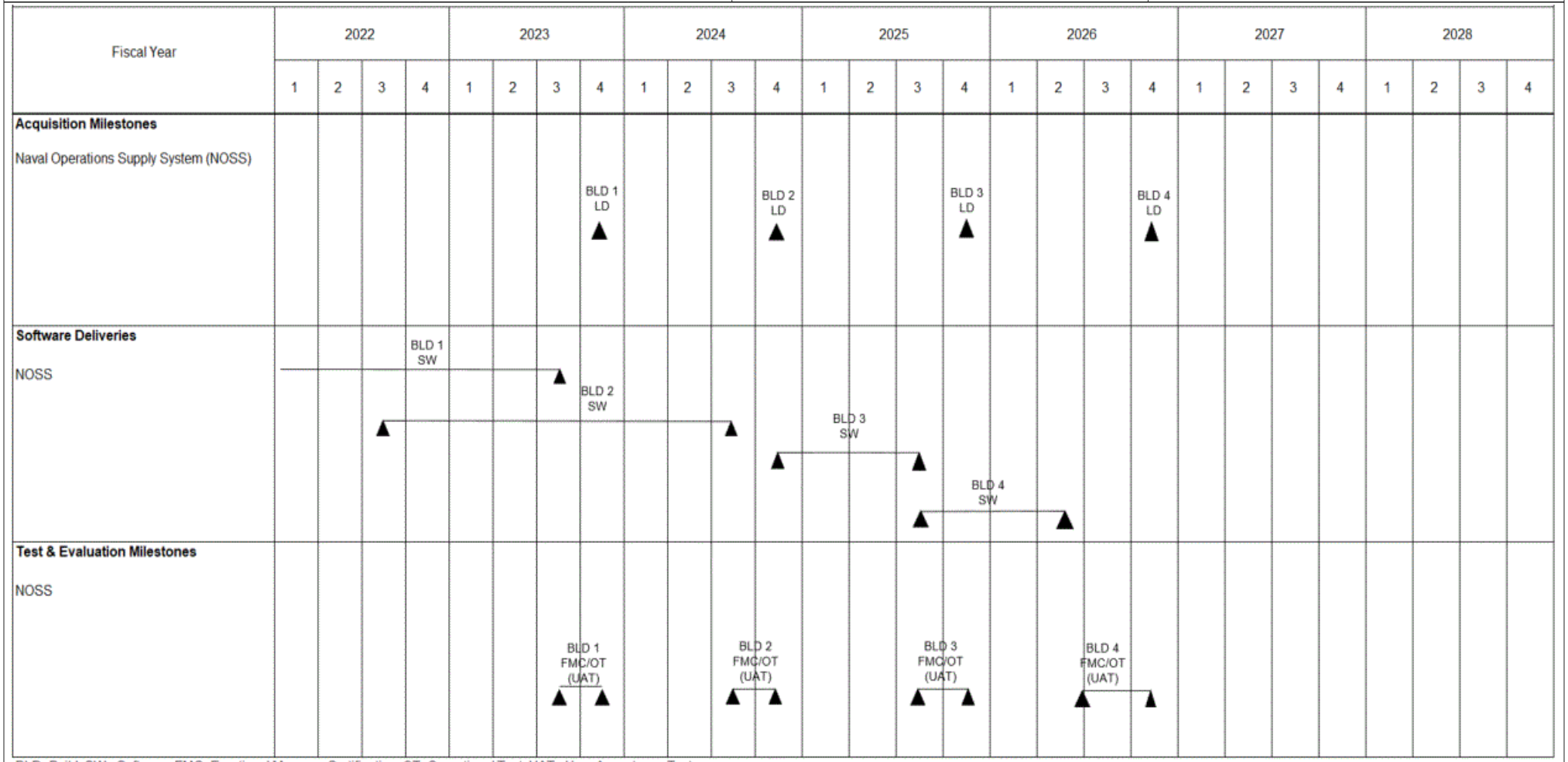
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
NOME System Engineering Support	WR	NIWC Pacific : San Diego, CA	2.620	0.000		0.000		0.000		-		0.000	0.000	2.620	-
NOSS System Engineering Support	WR	NIWC Pacific : San Diego, CA	6.840	2.000	Oct 2021	0.414	Oct 2022	0.000		-		0.000	0.000	9.254	-
NAMS System Engineering Support	WR	NIWC Pacific : San Diego, CA	2.870	0.000		0.000		0.000		-		0.000	0.000	2.870	-
N-MRO Systems Engineering Support	WR	NIWC Pacific : San Diego, CA	2.153	3.000	Oct 2021	0.000		0.000		-		0.000	0.000	5.153	-
NOSS Systems Engineering Support	C/CPFF	Deloitte : San Diego, CA	5.144	2.160	Jan 2022	0.000		0.000		-		0.000	0.000	7.304	-
NAMS Systems Engineering Support	C/CPFF	SENTEK Global : San Diego, CA	1.575	0.000		0.000		0.000		-		0.000	0.000	1.575	-
NOME Systems Engineering Support	C/CPFF	SENTEK Global : San Diego, CA	1.350	0.000		0.000		0.000		-		0.000	0.000	1.350	-
N-MRO Systems Engineering Support	C/CPFF	Deloitte : San Diego, CA	2.300	3.500	Jan 2022	0.000		0.000		-		0.000	0.000	5.800	-
NOME Program Management Support	C/CPFF	Booz Allen Hamilton : San Diego, CA	2.000	0.000		0.000		0.000		-		0.000	0.000	2.000	-
NOSS Program Management Support	C/CPFF	Booz Allen Hamilton : San Diego, CA	4.194	1.200	Oct 2021	0.000		0.000		-		0.000	0.000	5.394	-
NAMS Program Management Support	C/CPFF	Booz Allen Hamilton : San Diego, CA	3.000	0.000		0.000		0.000		-		0.000	0.000	3.000	-
N-MRO Program Management Support	C/CPFF	Booz Allen Hamilton : San Diego, CA	0.448	2.000	Oct 2021	0.000		0.000		-		0.000	0.000	2.448	-
		Subtotal	34.494	13.860		0.414		0.000		-		0.000	0.000	48.768	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604231N / *COMMAND AND CONTROL*	Project (Number/Name) 3260 / *Naval Operations Business Logistics Enterprise (NOBLE)*	

	Prior Years	FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	164.234	92.032		112.477		62.791		-		62.791	Continuing	Continuing	N/A

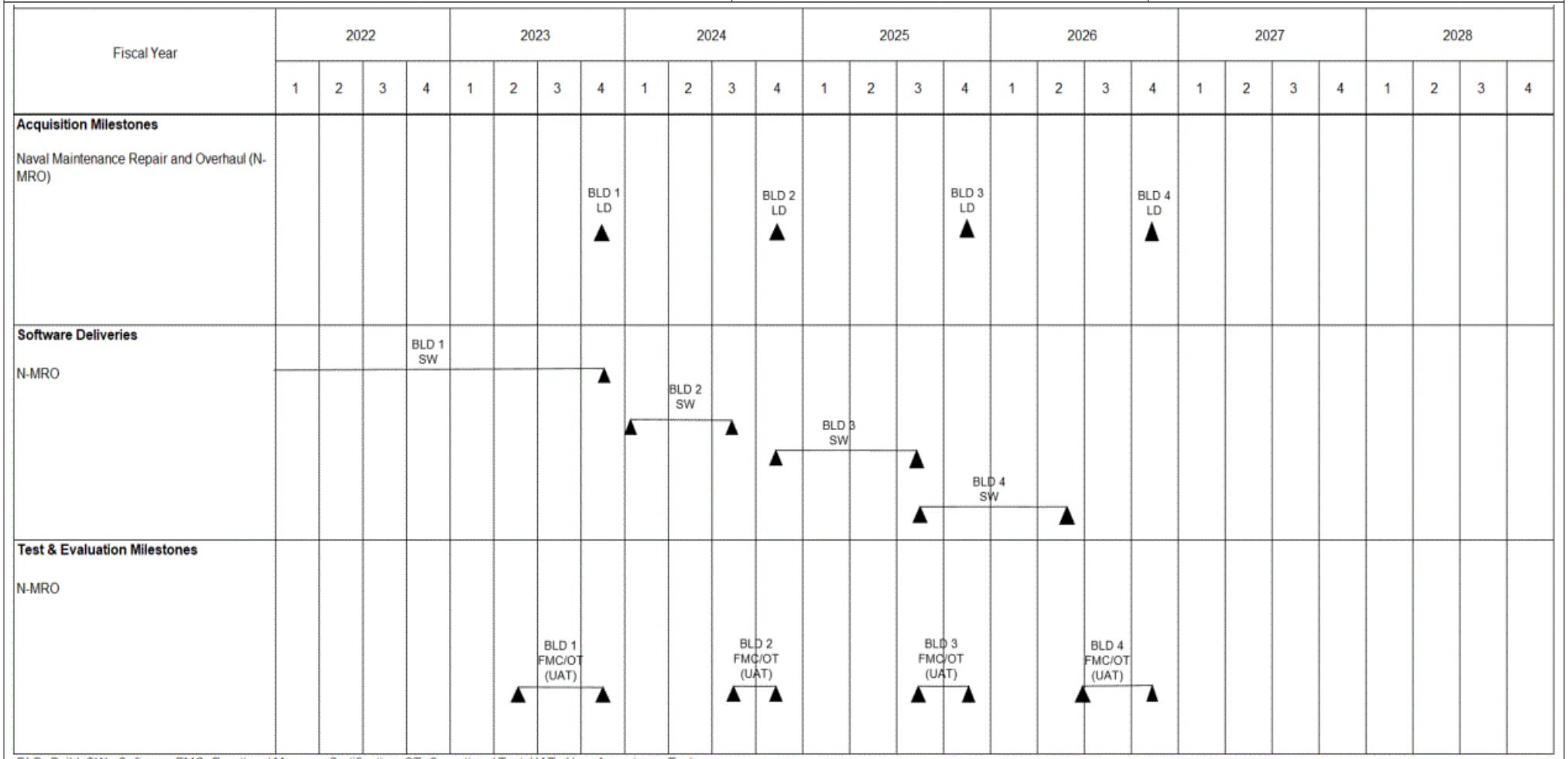
Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 3260 / *Naval Operations Business Logistics Enterprise (NOBLE)*



BLD- Build; SW - Software; FMC- Functional Manager Certification; OT- Operational Test; UAT - User Acceptance Test

Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 3260 / *Naval Operations Business Logistics Enterprise (NOBLE)*



BLD- Build; SW - Software; FMC- Functional Manager Certification; OT- Operational Test; UAT - User Acceptance Test

Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 3260 / *Naval Operations Business Logistics Enterprise (NOBLE)*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 3260				
Naval Maintenance, Repair, and Overhaul (N-MRO) Build 1 Software Development	1	2022	4	2023
Naval Operational Supply System (NOSS) Build 1 Software Development	1	2022	3	2023
Naval Maintenance, Repair, and Overhaul (N-MRO) Build 1 Functional Manager Certification/Operational Test (User Acceptance Test)	2	2023	4	2023
Naval Operational Supply System (NOSS) Build 1 Functional Manager Certification/ Operational Test (User Acceptance Test)	3	2023	4	2023
Naval Maintenance, Repair, and Overhaul (N-MRO) Build 1 Limited Deployment	4	2023	4	2023
Naval Operational Supply System (NOSS) Build 1 Limited Deployment	4	2023	4	2023
Naval Maintenance, Repair, and Overhaul (N-MRO) Build 2 Software Development	1	2024	3	2024
Naval Operational Supply System (NOSS) Build 2 Software Development	3	2022	3	2024
Naval Maintenance, Repair, and Overhaul (N-MRO) Build 2 Functional Manager Certification/Operational Test (User Acceptance Test)	3	2024	4	2024
Naval Operational Supply System (NOSS) Build 2 Functional Manager Certification/ Operational Test (User Acceptance Test)	3	2024	4	2024
Naval Maintenance, Repair, and Overhaul (N-MRO) Build 2 Limited Deployment	4	2024	4	2024
Naval Operational Supply System (NOSS) Build 2 Limited Deployment	4	2024	4	2024
Naval Maintenance, Repair, and Overhaul (N-MRO) Build 3 Software Development	4	2024	3	2025
Naval Operational Supply System (NOSS) Build 3 Software Development	4	2024	3	2025
Naval Maintenance, Repair, and Overhaul (N-MRO) Build 3 Functional Manager Certification/Operational Test (User Acceptance Test)	3	2025	4	2025
Naval Operational Supply System (NOSS) Build 3 Functional Manager Certification/ Operational Test (User Acceptance Test)	3	2025	4	2025
Naval Maintenance, Repair, and Overhaul (N-MRO) Build 3 Limited Deployment	4	2025	4	2025

Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 3260 / *Naval Operations Business Logistics Enterprise (NOBLE)*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Naval Operational Supply System (NOSS) Build 3 Limited Deployment	4	2025	4	2025
Naval Maintenance, Repair, and Overhaul (N-MRO) Build 4 Software Development	3	2025	2	2026
Naval Operational Supply System (NOSS) Build 4 Software Development	3	2025	2	2026
Naval Maintenance, Repair, and Overhaul (N-MRO) Build 4 Functional Manager Certification/Operational Test (User Acceptance Test)	3	2026	4	2026
Naval Operational Supply System (NOSS) Build 4 Functional Manager Certification/ Operational Test (User Acceptance Test)	3	2026	4	2026
Naval Operational Supply System (NOSS) Build 4 Limited Deployment	4	2026	4	2026
Naval Maintenance, Repair, and Overhaul (N-MRO) Build 4 Limited Deployment	4	2026	4	2026

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy											Date: March 2023	
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604231N / *COMMAND AND CONTROL*				Project (Number/Name) 3324 / *Navy Air Operations Command and Control (NAOC2)*			
COST ($ in Millions)	**Prior Years**	**FY 2022**	**FY 2023**	**FY 2024 Base**	**FY 2024 OCO**	**FY 2024 Total**	**FY 2025**	**FY 2026**	**FY 2027**	**FY 2028**	**Cost To Complete**	**Total Cost**
3324: *Navy Air Operations Command and Control (NAOC2)*	17.031	0.686	0.740	0.803	-	0.803	0.785	0.802	0.818	0.835	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Navy Air Operations Command and Control (NAOC2): NAOC2 tests and integrates US Air Force program of record systems - Theater Battle Management Core System (TBMCS) and its replacement Kessel Run Applications Kit for Enterprise Navy (KRAKEN) which provides an integrated and scalable planning system for standardized, secure, and automated decision support for Air Force, Joint, and Allied commanders worldwide - to operate in the Navy enterprise network environment such as Consolidated Afloat Networks and Enterprise Services (CANES). These programs provide automated air operations planning, execution management and intelligence capabilities for fleet commanders, Commander Carrier Strike Groups, Commander Expeditionary Strike Groups, Commander Landing Forces, and Joint Task Force Commanders. KRAKEN (when fielded) will provide rapid, agile delivery of capabilities to the fleet by commercial cloud infrastructure using Development, Security, Operations (DevSecOps) cloud native applications. KRAKEN is comprised of multiple tactical software applications that will provide continuous iterate delivery of software to shipboard and shore users. It will also align with the Joint C2 Reference Architecture (JC2RA) such as CANES. KRAKEN is not natively compatible with Navy Information Technology (IT) infrastructure, such as CANES, and requires a significant level of system integration. Continuation of Navy integration and test efforts will significantly enhance the ability of the Joint Force Air Component Commander and Combined Air Operations Center personnel to plan daily air operations including strike, airlift, offensive/defensive air, missile defense, and refueling missions in support of combat operations. Developmental Testing is continuous and operates in parallel with the DevSecOps construct. KRAKEN will be continued for new technology insertion into Navy infrastructure network and hardware in support of Naval Air C2 and Net Enabled Weapons system integration. KRAKEN addresses the requirement of war fighter distributed planning and execution processes along with significantly improving Joint interoperability. TBMCS continues a hardware transition to CANES. Currently, TBMCS is the key system that is used to conduct real world air planning in the Joint and Navy environments. KRAKEN will replace TBMCS while bringing more flexibility to the war fighter.

FY24 funding supports KRAKEN integration and development of Kubernetes based containers from the United States Air Force (USAF) into the CANES environment, and the development of the Commander Operational Test & Evaluation Force (COMOPTEVFOR), USAF, and Air Force Operational Test and Evaluation Center (AFOTEC) joint testing and certification plan.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	**FY 2022**	**FY 2023**	**FY 2024 Base**	**FY 2024 OCO**	**FY 2024 Total**
Title: Kessel Run Applications Kit for Enterprise Navy (KRAKEN) Integration and Testing	0.686	0.740	0.803	0.000	0.803
Articles:	-	-	-	-	-
FY 2023 Plans: Complete TBMCS modernization effort and prep fully containerized application for fielding to ships equipped with the correct version of CANES/ACS. Continue working with the USAF Kessel Run (KR) team to incorporate Navy					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 3324 / *Navy Air Operations Command and Control (NAOC2)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
user feedback into future releases of fielded applications. Continue Integration of new KRAKEN containers into the RedHat ACS and participating in joint testing with COMOPTEVFOR, USAF, AFOTEC. ***FY 2024 Base Plans:*** Continue DevSecOps integration with CANES. Continue working with the USAF Kessel Run (KR) team to incorporate Navy user feedback into future releases of fielded applications. Continue Integration of new KRAKEN containers into the RedHat ACS and participating in joint testing with COMOPTEVFOR, USAF, AFOTEC. ***FY 2024 OCO Plans:*** N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:*** FY24 budget increase funds test strategy development and automated functional tests for Kessel Run Applications Kit for Enterprise Navy (KRAKEN).					
Accomplishments/Planned Programs Subtotals	0.686	0.740	0.803	0.000	0.803

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Theater Battle Management Core System (TBMCS) and KRAKEN are designed, developed, and delivered by the Air Force and will be integrated for a Navy Common Computing Environment (CCE) such as Consolidated Afloat Network and Enterprise Services (CANES). As a Joint interest program, this approach satisfies the current validated requirements, supports the accelerated retirement of legacy hardware, and reduces overall risk to the program.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 3324 / *Navy Air Operations Command and Control (NAOC2)*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering/ Training DevelopmentText/ Configuration Management	WR	NIWC Pacific : San Diego, CA	4.023	0.094	Nov 2021	0.000		0.000		-		0.000	0.000	4.117	4.117
Integration and Testing	MIPR	CECOM/MITRE : San Diego, CA	0.457	0.143	Nov 2021	0.000		0.000		-		0.000	0.000	0.600	0.600
Integration and Testing	WR	NIWC Pacific : San Diego, CA	5.332	0.375	Nov 2021	0.000		0.000		-		0.000	0.000	5.707	5.707
NAOC2 Product Development	Various	VARIOUS : VARIOUS	2.512	0.000		0.000		0.000		-		0.000	0.000	2.512	2.512
Systems Engineering/ Training Development/ Configuration Management	WR	NIWC Atlantic : Charleston, SC	0.000	0.000		0.480	Nov 2022	0.252	Nov 2023	-		0.252	Continuing	Continuing	Continuing
Integration and Testing	WR	NIWC Atlantic : Charleston, SC	0.000	0.000		0.184	Nov 2022	0.390	Nov 2023	-		0.390	Continuing	Continuing	Continuing
		Subtotal	12.324	0.612		0.664		0.642		-		0.642	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Development/ILS Support	WR	VARIOUS : VARIOUS	0.538	0.000		0.000		0.000		-		0.000	0.000	0.538	0.538
		Subtotal	0.538	0.000		0.000		0.000		-		0.000	0.000	0.538	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Operational Test & Evaluation (OT&E)	WR	COMOPTEVFOR : Norfolk, VA	0.450	0.074	Nov 2021	0.000		0.000		-		0.000	0.000	0.524	0.524
Developmental Test & Evaluation (DT&E)	WR	NIWC Pacific : San Diego, CA	2.651	0.000		0.000		0.000		-		0.000	0.000	2.651	2.651

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 3324 / *Navy Air Operations Command and Control (NAOC2)*

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	WR	NIWC Atlantic : Charleston, SC	0.000	0.000		0.076	Nov 2022	0.161	Nov 2023	-		0.161	Continuing	Continuing	Continuing
		Subtotal	3.101	0.074		0.076		0.161		-		0.161	Continuing	Continuing	N/A

Remarks

FY24 Test and Evaluation increase funds additional test strategy development and automated functional tests for Kessel Run Applications Kit for Enterprise Navy (KRAKEN).

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Contractor Engineering and Program Management Support	C/CPFF	Various : San Diego, CA	1.068	0.000		0.000		0.000		-		0.000	0.000	1.068	1.068
		Subtotal	1.068	0.000		0.000		0.000		-		0.000	0.000	1.068	N/A

	Prior Years	FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	17.031	0.686		0.740		0.803		-		0.803	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604231N / *COMMAND AND CONTROL*	Project (Number/Name) 3324 / *Navy Air Operations Command and Control (NAOC2)*	

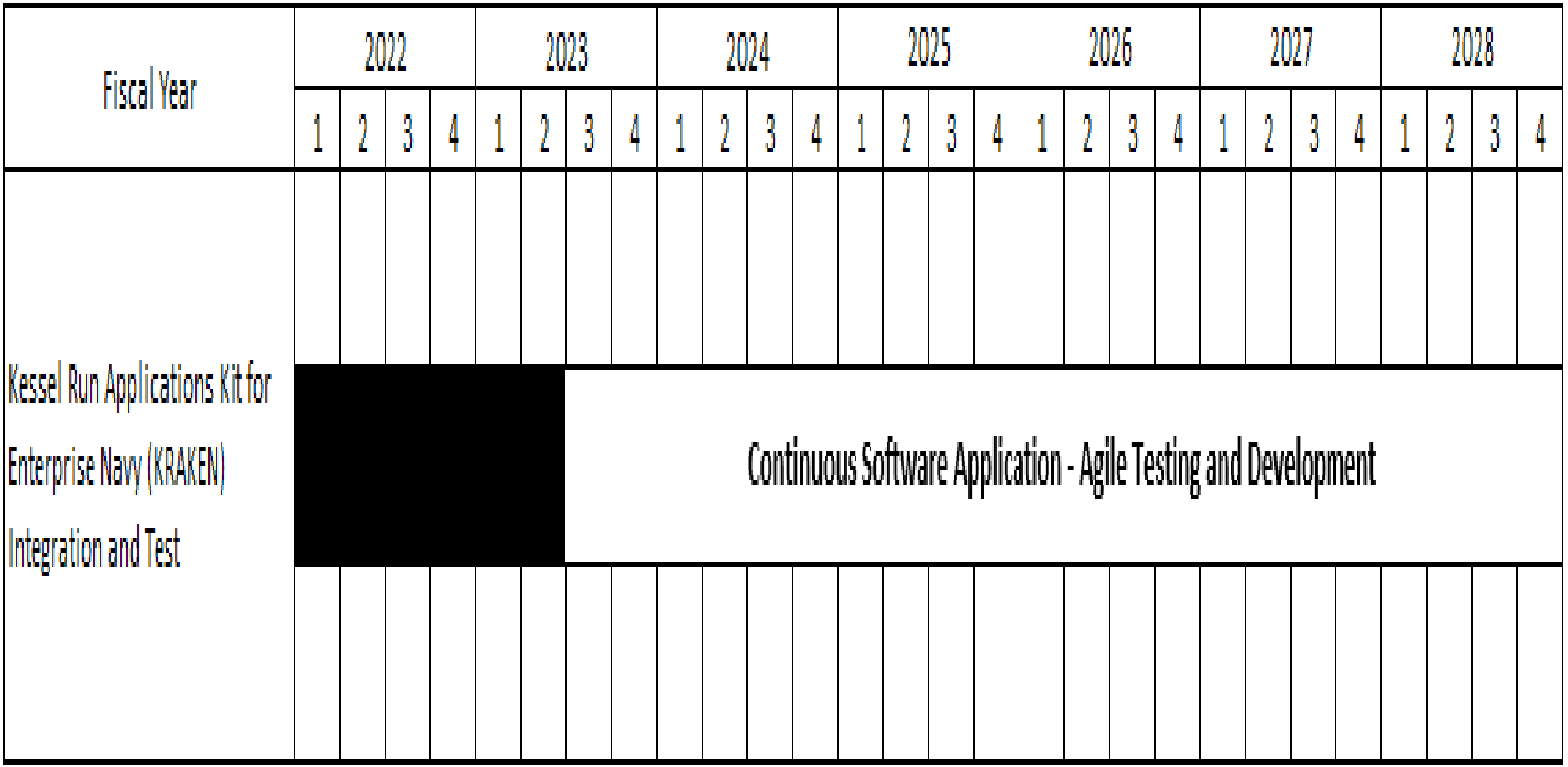


Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 3324 / *Navy Air Operations Command and Control (NAOC2)*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 3324				
Kessel Run Applications Kit for Enterprise Navy (KRAKEN) Integration and Test	1	2022	4	2028

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604231N / *COMMAND AND CONTROL*	Project (Number/Name) 9123 / *FORCEnet*	

COST ($ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
9123: *FORCEnet*	248.203	2.146	2.237	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	252.586
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

FORCEnet Funding supports IW Portfolio Health Assessments (PHAs) of Navy mission areas and identifies gaps in Information Warfare (IW) capabilities in the context of assessed mission areas.

Funding supports IW Portfolio Health Assessments (PHAs) of Navy mission areas and identifies gaps in IW capabilities in the context of assessed mission areas. Funding support vignettes, technical baselines, architecture products, and briefings developed to support sponsor decision making processes.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: FORCEnet	2.146	2.237	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2023 Plans: - Guided by OPNAV N2N65 priorities, Forcenet/PHA will continue to expand on upon System of Systems (SoS) mission engineering analyses and ongoing experimentation to iteratively mature the findings and outcomes, while increasing the support to a development of Limited Operational Capabilities. - Continue to utilize and study Navy mission areas in support of SoS engineering assessments identifying integration and interoperability gaps, trades, and solutions for sponsor related equities. - Continue to identify Navy mission area gaps in Information Warfare (IW) capabilities to prioritize Science and Technology (S&T) efforts for future budget decisions. Continued to identify critical architectural dependencies that enable mission situational awareness, which is a key component of the Portfolio Health Assessments (PHAs). - Continue to package assessments to support sponsor decision-making processes. - Continue to assess trade space and solutions, ensuring Force level capability and System of Systems (SoS) integration and interoperability across areas of interest to stakeholders including OPNAV N2/N6, N9I, ASN RDA, NAVWAR, NAVIFOR, PEO C4I. - Maximize utility of analytic products by understanding each stakeholder and their specific needs to provide them with objective, focused, relevant, and useable analysis.					
FY 2024 Base Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 9123 / *FORCEnet*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
N/A ***FY 2024 OCO Plans:*** N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:*** Decrease of $2.237M between FY23 and FY24 is attributed to a Naval Information Warfare and Architecture vertical reduction, eliminating funding beginning in FY24.					
Accomplishments/Planned Programs Subtotals	2.146	2.237	0.000	0.000	0.000

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

FORCEnet is a non-acquisition effort that informs and matures Navy decisions, which in turn impacts acquisition programs. Activities include acquiring intellectual capital in emerging technical areas through contracts providing technical engineering expertise and surge capacity for emerging tasks.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 9123 / *FORCEnet*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Hardware Development and Systems Engineering	Various	Various : Various	4.331	0.000		0.000		0.000		-		0.000	0.000	4.331	-
		Subtotal	4.331	0.000		0.000		0.000		-		0.000	0.000	4.331	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Development and Logistics Support	Various	Various : Various	136.842	0.000		0.000		0.000		-		0.000	0.000	136.842	-
Information Warfare Roadmaps and Analysis	C/CPFF	Metron : Reston, VA	17.159	1.700	May 2022	1.526	May 2023	0.000		-		0.000	0.000	20.385	-
Information Warfare Roadmaps and Analysis	WR	NIWC PAC : San Diego, CA	4.267	0.446	May 2023	0.521	May 2023	0.000		-		0.000	0.000	5.234	-
Information Warfare Roadmaps and Analysis	C/CPFF	BAH : McLean, VA	0.651	0.000		0.190	Mar 2023	0.000		-		0.000	0.000	0.841	-
		Subtotal	158.919	2.146		2.237		0.000		-		0.000	0.000	163.302	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	Various	Various : Various	77.271	0.000		0.000		0.000		-		0.000	0.000	77.271	-
		Subtotal	77.271	0.000		0.000		0.000		-		0.000	0.000	77.271	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604231N / *COMMAND AND CONTROL*	Project (Number/Name) 9123 / *FORCEnet*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering and Technical Support	Various	Various : Various	7.682	0.000		0.000		0.000		-		0.000	0.000	7.682	-
		Subtotal	7.682	0.000		0.000		0.000		-		0.000	0.000	7.682	N/A

	Prior Years	FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	248.203	2.146		2.237		0.000		-		0.000	0.000	252.586	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 9123 / *FORCEnet*

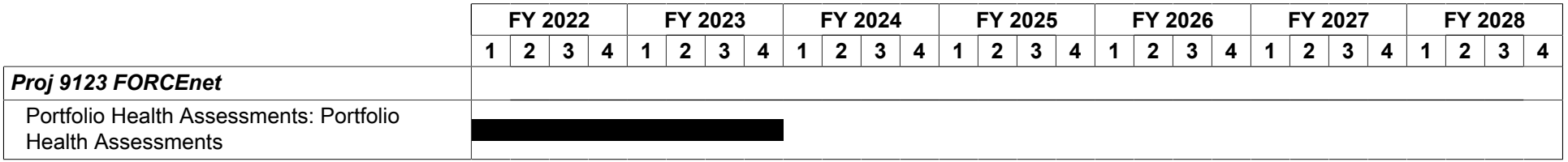


Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604231N / *COMMAND AND CONTROL*	**Project (Number/Name)** 9123 / *FORCEnet*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 9123 FORCEnet				
Portfolio Health Assessments: Portfolio Health Assessments	1	2022	4	2023