Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy												Date: March 2024
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*					R-1 Program Element (Number/Name) PE 0605013N *I Information Technology Development*							
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
Total Program Element	1,377.111	308.605	282.138	325.004	-	325.004	301.677	237.059	136.407	139.681	Continuing	Continuing
2901: *Navy Enterprise IT*	195.452	52.762	37.099	51.850	-	51.850	54.134	34.565	30.184	30.807	Continuing	Continuing
2903: *NAVAIR IT*	75.213	11.385	13.979	16.580	-	16.580	16.700	18.025	18.859	19.666	Continuing	Continuing
2904: *NAVSEA IT*	321.971	16.339	19.431	21.171	-	21.171	20.411	20.113	20.515	20.946	Continuing	Continuing
2905: *BUPERS IT*	482.548	140.531	137.692	173.403	-	173.403	149.694	102.753	3.940	4.023	Continuing	Continuing
2953: *Model Based Product Support (MBPS)*	0.000	10.391	20.532	14.334	-	14.334	11.518	11.790	11.996	12.202	Continuing	Continuing
3167: *Joint Technical Data Integration (JTDI)*	59.568	6.252	8.077	8.022	-	8.022	7.942	8.077	8.312	8.487	Continuing	Continuing
3185: *Joint Airlift Information System (JALIS)*	3.667	0.456	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4.123
9406: *Maintenance Data Warehouse*	166.786	43.425	45.328	39.644	-	39.644	41.278	41.736	42.601	43.550	Continuing	Continuing
9999: *Congressional Adds*	71.906	27.064	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	98.970

A. Mission Description and Budget Item Justification

2901 Navy Enterprise IT

SECNAV PROJECTS IT SYSTEM MODERNIZATION

The Department of the Navy Chief Information Officer, Technology Division (DONCIO IT) provides Information Technology (IT), Information Assurance (IA), Information Management (IM), Document Management (DM), Records Management (RM), Knowledge Management (KM) and other related support services to the Secretary of the Navy (SECNAV), Chief of Naval Operations (OPNAV), and the DON Secretariat. This support spans across over 24 organizations, covers nearly 6,000 individual customers, and countless worldwide end users.

ELECTRONIC PROCUREMENT SYSTEM (ePS)

ePS provides the Department of the Navy Solution for Electronic Contract Writing replacing the existing Standard Procurement System (SPS) and DoN Integrated Contracting Environment (DICE) capabilities and deficiencies. ePS aligns Contract Writing System (CWS) with Financial Improvement Audit Readiness requirements

mandated by Congress and the Department of Navy's goal for an auditable link between financial management and contract writing system. It supports strategic sourcing and seamless exchange of data in addition to evolving to meet changing requirements. The improved capabilities will meet emerging data standards Procurement Data Standards/Procurement Request Data Standards (PDS/PRDS), in addition to complying with Office of the Secretary of Defense (OSD) Clause Logic Service. ePS meets the intent of the National Defense Authorization Act of 2013 by providing an electronic means to award contracts.

NMCI ENTERPRISE SERVICE TOOLS (NEST)

Next Generation Enterprise Network (NGEN) utilizes the NMCI Enterprise Service Tools (NEST) as an integrated set of tools that facilitate the full service lifecycle management (SLM) of customer service requests for IT services, including RAPT (Requirement to Award Process Tool), NET (NMCI Enterprise Tool), Task Order Management (TOM), and Enterprise Reporting. NEST is considered a Government Owned and Managed Ordering Defense Business System (DBS) that has a valid ATO.

NEXT GENERATION ENTERPRISE NETWORK (NGEN) NETWORK ARCHITECHTURE DESIGN AND TESTING

NGEN is utilizing a rapid, agile systems engineering and pilot approach, leveraging leading industry experts to design and execute a transformative architecture across the spectrum of services which drives towards the design and implementation of modern services. Modern services provide for better delivering on requirements with optimal cloud consumption, domain singularity, mobility, resilience, increased customer experience and enhanced security. These modernized services are on parity with industry, which is ready to meet changing mission needs and achieve competitive Naval advantage through a constant state of Information Readiness and outcomes will be measured via Worldclass Alignment Metrics (WAM). Navy's Digitization Journey is dependent upon the Navy's Enterprise Network. The modernized platform will meet today and future mission requirements. This multi-year effort and investment is needed to finalize and adjudicate a Target Enterprise Architecture (TEA), identify obsolescent technologies associated with Navy network platforms, and aid in the integration of users and services, implement enabling business processes and service management frameworks, and provide sustaining activity guidance for future investment areas across all classification levels and operating environments.

NGEN will implement a new network architecture design, a technical enterprise architecture that integrates rationalized users and services, implements enabling business processes and service management frameworks and provides guidance for future investment areas across all classification levels and operating environments. This includes network modeling & simulation, performance-based prototypes and applied research in future technologies affecting network architectures to advance the state of networks across all domains.

2903 NAVAIR IT

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy	Date: March 2024
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605013N *I Information Technology Development*

Navy Cybersecurity - Cyber Warfare consists of many different aspects to include sabotage of our weapon systems, networks as well as enablement of missions. Nation and non-nation state actors are acquiring and employing more advanced cyber-attacks in order to exploit our networks and aviation systems challenging our technological edge. The threats and capabilities are real and range from exploiting capabilities, overloading weapons systems and logistics supply chains, to jamming signals or taking control of weapons systems. We must defend against adversarial cyber attacks while contributing to the exploitation of cyber warfare capabilities.

To meet these challenges and address the Chief of Naval Operations priorities and tasking, these R&D efforts are specifically focused on Naval Air Systems Command weapon or control systems and programs to ensure warfighting effectiveness as part of integrated / multi-platform kill chains. These research and development efforts will strengthen our cyber posture by developing research, development, test and evaluation capabilities and solutions to deter, detect, and mitigate cyber threats and safeguard classified naval aviation systems and platforms from "cradle to grave." These solutions will be integrated into the acquisition of weapons systems to enhance security, increase lethality, and improve resiliency in the expected operational environments. Our weapon or control systems are unique in the aforementioned environments and mission, but also in the presence of numerous non-traditional access points and trusted cyber relationships required for operational environments.

Further, this line sustains Naval Aviation's Red Team capability to research, identify and validate nation-state exploitable cyber susceptibilities and vulnerabilities in both deployed and next-generation warfighting platforms. Through it, these efforts improve Naval Aviation's mission survivability by developing and demonstrating operational TTPs within the cyber contested environment. The team partners with Naval Aviation programs to certify theorized cyber weaknesses and thus to prevent denial, degradation or disruption of safety, readiness, and mission. The Red Team's assessment products support CYBERSAFE certification of platforms and systems, and likewise supports PMAs and OPNAV with validated threat data prioritizing systems security engineering (SSE) investments. The team leverages national-level cyber warfare experts, all-source intelligence, and technology research to assess NAE operational technology, fleet exercises, support equipment, enterprise logistics systems, and supply chain.

Digital Thread (DT) - Funding provides a Naval Enterprise Solution to manage technical data required for weapons systems to promote workforce automation, resource optimization, and process standardization for program lifecycle management and to integrate acquisition with the warfighter. This will support future state for Logistics IT and enhancing Readiness in providing an enterprise solution with Naval Product Lifecycle Management (N-PLM). N-PLM is integral to Digital Log IT, supporting the Naval Maintenance, Repair, and Overhaul (N-MRO), Naval Supply Chain Management (N-SCM). Digital Thread (DT) is the capability providing digital process integration with complete, secure and authoritative data, coordinated as part of approved Navy LOG-IT. DT integrates the product life cycle to provide universal access to authoritative data and workflow automation, enabling configuration management of data, implementation of closed loop quality, and consolidation of engineering products including digital enablement of additive manufacturing. Connecting these processes using standardized digital tools and data accelerates the product development cycle and lowers costs for support and new capability integration. The Digital Thread capability includes development and demonstration of cyber security architectures for sustainment information systems, and development of a digital/additive manufacturing data architecture and repository. DT capability will benefit the speed to the Fleet with reduction of active legacy systems that stakeholders (PMAs, Squadrons, Depots, OEM, and Shipyards) are accessing for authoritative data.

Digital Production Floor (DPF) - Initiative modernizes Navy Aviation Depots by removing paper from the Production floor and integrating key Quality elements to support a true digital North Star ensuring viability and alignment with broader Naval Logistics IT (LOG-IT) enterprise initiatives to realize a fully unified digital sustainment capability. This capability aligns and leverages ongoing Digital Thread /Aviation Product Lifecycle Management (AvPLM) efforts to transform our existing way of doing

business and align us with commercial best practices for digitization of business processes. Current paper based processes have demonstrated inefficiencies and administrative delays in performance, degraded quality of product, and increased Depot level repair turnaround times.

Radio Frequency Identification (RFID) - Digital tracking infrastructure enabling enhanced inventory and asset tracking capability with real-time or near real time visibility of fixed and rolling assets for accountability. Signed DD200s document lost tagged assets, therefore, each of these assets are large enough to be tagged. This capability will reduce the amount of DD200s by approximately 95%. By digitizing this capability, labor man-hours spent manually performing inventory tasking requirements will be reduced by ~33% overall. This initiative will provide the necessary foundational infrastructure and enable expansion to other use cases such as tool control, parts tracking, and HAZMAT tracking. Moving from manual, labor-intensive (~30 man-years) inventory method for fixed and rolling assets to an automatic digital method will provide real-time or near real time visibility into asset location throughout the facility, alerts when assets that are taken out of a geo-fenced location, and the ability to perform frequent inventory inspections; therefore, providing enhanced asset management. This will be accomplished by the implementation of compatible and integrated solutions via a blended technology approach (i.e. RFID, GPS, etc.) that is in direct support of the objective to realize a full Digital Production Floor at the Aviation Depots.

Additive Manufacturing (AM) - Provides for the development of the Additive Manufacturing/3D Printing Process, Material Verification and Qualification to support deployment of Additive Manufacturing capability to Fleet Depot and Level II Maintenance level facilities, as well as provides for the Qualification, Validation, Testing and incorporation of private industry Additive Manufacturing initiatives across the Naval Aviation Enterprise to include NAVSUP and DLA. Additionally Additive Manufacturing funds Cooperative Research and Development Activities (CRADAs) support with Industry Partners and next generation AM studies. This effort will fund the development, test and approval of additional Polymer Material Data Curves, Polymer material certification for aviation applications and System Documentation/ Training updates of additional high strength Polymers for use on deployed Additive Manufacturing systems. This will support deployed systems in producing Critical parts for Aircraft, Support Equipment and Aircraft Launch and Recovery Equipment, while enhancing Naval Aviation Readiness and Lethality allowing point of need part manufacturing to mitigate supply support shortfall, dramatically decreasing Mean Logistics Delay Times (MLDT) and increasing aircraft availability.

2904 NAVSEA IT

This program includes the funding for the Information Technology (IT) tools utilized in shore maritime maintenance planning, execution, tracking, quality control, certification, closeout, employee qualifications, and payroll. This program supports ship, submarine, and aircraft carrier maintenance. The Navy Maritime Maintenance Enterprise Solution (NMMES) includes efforts for the development, support, and sustainment of maritime shore maintenance and includes multiple modernization efforts to insure effectiveness of Fleet maintenance systems. This includes the retirement and/or replacement of costly systems and applications, transition planning, and systems engineering for integration with current and future enterprise solutions. These efforts align with direction to insure that these solutions support a planned, single maintenance solution end state, as well as direction to align with multiple laws, regulations, policies, and guidance across the FYDP. It includes the modernization of Naval Shipyard, Regional Maintenance Centers, and Forward Deployed Naval Forces' planning, Maintenance, Repair and Overhaul (MRO) production tools. This includes modifications/enhancements to Shipyard IT applications, for work execution management, critical chain scheduling, workload and performance applications, the availability cost tracking, and material management applications, and other solutions such as the Electronic Technical Working Document (eTWD) initiative. The goal is to provide modernization, migration, and consolidation of obsolete legacy IT tools to a modern, supportable, and modular solution enabling Fleet Maintenance across Intermediate and Depot level maintenance activities worldwide for the Navy.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy	Date: March 2024
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605013N *I Information Technology Development*

2905 MyNavy HR

MyNavy Human Resources (HR) Transformation - formerly known as Manpower, Personnel, Training & Education (MPT&E) Transformation -- will change how we recruit, how HR services are provided throughout a Sailor's entire "Hire-to-Retire" lifecycle and improve fleet combat readiness. By streamlining processes and systems, MyNavy HR will improve the speed, accuracy, and quality of personnel and pay services, better positioning the Navy to equip and manage its people.
This effort is the linchpin of the Navy's MPT&E Business IT Transformation strategy that stems from investing in programs that directly align with the Sailor 2025 vision. The current 70-year-old business processes and 40-year-old obsolete IT systems will not sustain anticipated Fleet growth and is neither cost efficient nor effective. MyNavy HR involves revolutionary change by using agile delivery model to the greatest extent possible to implement business IT products using the Industry Best Practices Model (e.g., early investment for largest ROI, rapid prototyping, and vanilla COTS products usage.) MyNavy HR is a fully integrated portfolio of IT Systems organized into five distinct pillars: Navy Personnel and Pay (NP2), Learning Stack (LS), Enterprise Customer Relationship Management (eCRM), Single Point of Entry (SPOE), and Authoritative Data Environment (ADE). This portfolio of systems serves as the cornerstone of the OPNAV N1 MyNavy HR strategy.
The impetus for building an adaptive family of systems is gearing MyNavy HR Transformation towards customer needs. The traditional waterfall delivery methodology of IT goods and services cannot meet the emergent requirements evolving from shortened technical obsolescence. Thus, MyNavy HR Transformation will employ an Agile delivery method that is highly structured, with a repeatable software development approach designed to quickly deliver usable capability to the end user. These capabilities are packaged as Minimum Viable Products (MVPs) which are routinely delivered to the customer for their use and evaluation. Favorably received MVPs are subsequently refined and integrated into a production baseline.
Rapidly integrating a family of systems using an agile methodology necessitates an overarching system integrator and coordinator to ingest pilots and prototypes into a technical baseline. MNHR ITS will provide the Global Design & Strategic Planning to baseline the "55 to 1" technical execution plan and will articulate the "system of systems" baseline release. Additionally, pilots and prototypes that have reached sufficient maturity will be integrated and deployed into the production baseline.

AUTHORITATIVE DATA ENVIRONMENT (ADE)
The Authoritative Data Environment (ADE) is an enterprise information management system that will migrate the existing MyNavy HR legacy data warehouses into a central data repository that is composed of a data warehouse, data lake, data management tools and an Application Program Interface (API) Layer.
ADE will provide an authoritative data-sharing framework, leveraging scalable and interoperable technologies as well as business intelligence and data analytic capabilities.
ADE will need to interface and integrate with SPOE and all MyNavy HR transactional and business systems, including enabling 'plug & play' of new services, technologies, and system capabilities. Some of the key principles of ADE include:
1. Flexible architecture and scalable design.
2. Data Governance to produce authoritative, cleansed, conformed, consolidated, and calculated data.
3. Data Access to specified users.
4. Master Data Management (core elements, metadata tagging, business rules, standards, metrics, and tools).
5. Data analytics and business intelligence (descriptive, prescriptive, and predictive).
6. Identification, development, and maintenance of enterprise data policies.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy	Date: March 2024
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605013N *I Information Technology Development*

ENTERPRISE CUSTOMER RELATIONSHIP MANAGEMENT (eCRM)
The MyNavy HR eCRM solution integrates business processes, supporting systems, and authoritative data to manage the Navy's workforce. eCRM is a key component of the Navy Recruiting Command's (NRC) Applicant Relationship Management (ARM), Navy Personnel Command's (NPC) My Navy Career Center (MNCC), as well as Navy Education & Training Command (NETC) and other commands that manage the Navy workforce.
The eCRM solution integrates business processes such as knowledge management, case management, performance management, and recruiting with authoritative data and automated workflows to support the Navy's recruiting efforts, manage the Navy's military workforce and their families from hire to retire and provide Sailors access to a 24/7 help center to answer HR related questions. eCRM has quarterly program increments (PI) with two planned capability deliveries within each PI. eCRM embraces continuous integration and continuous delivery of capability, so agile teams are actively involved in planning, development, testing, training and releases all year long. New capabilities, change requests, hot fixes and maintenance are included in each quarterly program increment to respond to customer needs. The eCRM solution is organized by the following three segments, with dedicated resources supporting each segment:
1. The Navy Personnel Command Organization which is comprised of:
a. Human Resources Service Center (HRSC) - Supports the Navy's active, reserve, retiree and dependent communities around the world, with a state-of-the-art fully integrated telephony solution and 24/7 help center.
b. Personnel and Pay (PERSPAY) - Supports the Navy's active, reserve, retiree and dependent communities in documenting personnel and pay actions. This occurs through direct application support and through integration and coordination with the HRSC.
c. Physical Readiness Information Management System 2 (PRIMS2) - Supports the Navy physical fitness readiness through a system-of-systems leveraging MyNavy Portal (MNP), ICAM, eCRM, and ADE.
2. The Navy Recruiting Command Organization, which is comprised of:
a. Applicant Relationship Management (ARM) which includes most of the tools the recruiters use each day.
3. The Learning Stack (LS) Organization, which is comprised of:
a. A Curriculum Development System (CDS) supporting NETC.

LEARNING STACK (LS)
The Learning Stack will provide a cloud-based material solution that will streamline learning management (course/content delivery and assessments), capture and record interactive learning experiences, enable curriculum authoring and development, provide student Sailor registration and administration, create and regulate course/student scheduling, and offer e-learning capabilities, such as distance learning.
The Learning Stack is a delivery vehicle for the following core objectives of the Ready Relevant Learning (RRL) initiative:
Learning Management System (LMS) with Assessments - MyNavy Training (MNT)
MyNavy Learning (MNL)/Learning Content Management System (LCMS) (formally known as Learning Object Repository (LOR))
MyNavy Learning (MNL): User Interface (UI)/User Experience (UX), Recommender
Curriculum Data System (CDS)
RRL Rating & Career Domain Continuum (RCDC)
Student Information System (SIS)
Enterprise Resource Scheduler (ERS)

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy	Date: March 2024
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605013N *I Information Technology Development*

The Learning Stack is one of three lines of effort that is the Navy's strategy for IT learning continuum. The other two are RRL content modernization, and the Training Network infrastructure. Collectively, these three individual efforts will cultivate instruction content that meets Fleet validated needs (ashore and afloat), and provide keystone delivery mechanisms that will decrease training timelines, assimilate operational agility, and improve overall mission readiness.
Additionally, the Learning Stack supports the MyNavy HR Transformation Program that includes yet expands beyond the RRL core initiatives identified above. In support of the broader MyNavy HR enterprise, the Learning Stack will provide a centralized, authoritative repository for Interactive Multimedia Instruction (IMI) courseware, officer and citizen development (NJROTC and ROTC candidate management), enlisted advancement exam development and distribution, enlisted degree completions, and tuition assistance authorizations.
The RRL and MyNavy HR Transformation initiatives require the development of Learning Stack capabilities that permit:
1. Mobile & flexible delivery of modular training to the Sailor
2. Synchronization of work requirements with learning modules to ensure proper training delivery
3. Leveraging cloud-hosted capabilities to optimize the Learning Stack delivery model

NAVY PERSONNEL AND PAY (NP2)
A 2015 analysis of alternatives for integration of personnel and pay capabilities recommended the use of Oracle PeopleSoft 9.2 with Global Payroll for achieving the Navy's Personnel and Pay IT needs. Follow-on analysis conducted as part of the MyNavy HR Transformation efforts in 2016 and 2017 indicated that the most cost effective approach to achieving the Transformation goals of modernizing HR Business System IT consistent with industry best practices was de-customization of the Navy Standard Integrated Personnel System (NSIPS) which uses Oracle PeopleSoft as its core technology, integration with Global Payroll, use of General Ledger to maximize auditability and accounting functions and hosting of the integrated solution. Navy Personnel and Pay (NP2) will develop and sustain the core system of systems architecture; executing pilot programs and iterative development of capabilities for Navy's MyNavy HR Transformation.
The NP2 adapts and reengineers business processes to conform to the technical parameters of PeopleSoft 9.2 while integrating with the Direct to Treasury Pay Capability via Pay Modernization (Pay Mod). This combined effort will result in a minimally-customizable vanilla configured Commercial Off the Shelf, cloud hosted, integrated personnel and pay solution that will provide the Navy with an IT system that is modern, highly automated, auditable, and more efficient.
Implementation of NP2 will result in several key benefits:
1. Improved accuracy and auditability of personnel and pay transactions.
2. Treasury Direct Disbursing eliminating Navy reliance on the Defense Joint Military Pay System.
3. Improved permeability of Active and Reserve Components to improve accuracy and eliminate delays in pay processing when a member moves between components.
4. Increased automation of common personnel and pay transactions
5. Integration of functionality currently spread across 55+ different adhoc and outdated HR Business Systems.

SINGLE POINT OF ENTRY (SPOE)
SPOE is an integrated, unified capability that includes MyNavy Portal (MNP), Mobile Applications, and Identity, Credential and Access Management (ICAM). It also includes integration with eCRM, LS, NP2, and ADE solutions. SPOE consolidates the Navy's HR portals, knowledge, and applications into a single simplified Sailor experience. Through a multi-phased modernization approach, SPOE provides an intuitive self-service capability for Sailors to view and manage their personnel and

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy	Date: March 2024
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605013N *I Information Technology Development*

career information. It provides Active and Reserve Sailors with personalized interactive experiences and access to relevant information including learning content, HR applications, and career business processes. SPOE forms a foundational capability for the MyNavy Career Center (MNCC) by connecting its portal and ICAM functionality with eCRM. The Navy's strategy for transformation of its MyNavy HR capabilities relies on SPOE as the user-facing capability linking Sailors to modernized personnel and pay capabilities, MyNavy Training (MNT), and ADE.

SPOE includes processes, capabilities, and functionalities, such as:

1. Integration of capabilities to include: My Navy Portal (MNP), Mobile Applications, CRM solution, and Identity Credential Access Management (ICAM)
2. MNP

A. Serve as the My NavyHR's single point of entry to Sailors HR resource

B. Provide capability to have a low bandwidth version accessible to Sailors operating in a restricted bandwidth environment

C. Provide CAC-free access for Sailors accessing MNP via personal devices such as smart phones, tablets, personal laptops and computers.

D. Provide solution set for disconnected Operations

E. Provide a private portal for Sailors to access personal HR information

F. Provide a public presence for access to non- sensitive information.

3. ICAM

A. Provide authentication and design Single Sign-On (SSO) capability for access to the objective MyNavy HR capability.

4. Mobility Program

A. Maintain the ability to host and manage mobile applications through Apple/iTunes & GooglePlay app stores and host information in MyNavy HR's Navy App Locker website and mobile app. (www.applocker.navy.mil)

B. Provide Mobile application management suite/platform and processes for agile development and sustainment of apps' portfolio.

2953 MODEL BASED PRODUCT SUPPORT (MBPS) - Formerly known as Product Lifecycle Management (PLM)

Logistics Information Technology (LOG-IT) modernization will provide the capability of performing integrated, real-time, data driven operational and shore logistics. LOG-IT systems must be able to operate in disconnected environments with modern, cyber-secure and auditable systems that Compress the Kill Chain. The MBPS program is major authoritative data source for LOG-IT. The MBPS program modernizes ship / submarine readiness modeling, technical data management, and configuration management IT systems to enable advanced digital twin and readiness analytics capabilities. MBPS provides capability directed by ASN RDA (IAW ASN RDA Acquisition Decision Memorandum of 5/25/2021) in support of Digital Transformation to migrate legacy LOG IT applications into an integrated Navy Product Life-Cycle Management (N-PLM) environment to include both maritime and aviation support. It will be hosted in a Government-approved commercial cloud environment and used on a 24/7 basis by over 200,000 personnel assigned to 286 ships/submarines, all aircraft and over 700 shore-based activities, impacting a yearly $6.5B investment in product sustainment.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy	Date: March 2024
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605013N *I Information Technology Development*

Additional resources are required to complete MBPS capability to execute the replacement of legacy LOG IT systems into N-PLM to support Planned Maintenance, Modernization Planning, and Operational Availability reporting. Use of RDT&E funding allows for performance of engineering development, design testing, data integration, training development and cybersecurity requirements and award capability development via Other Transaction Authority or via PTC development contract to complete MBPS MVPs and align efforts with NAVAIR under PEO MLB to transition to a single Navy PLM beginning in FY23.

3167 JOINT TECHNICAL DATA INTEGRATION (JTDI)

Joint Technical Data Integration (JTDI) Program - Funding provides an enterprise common data transport solution to support the future state for Logistics IT and Readiness: Naval Product Lifecycle Management (N-PLM), Naval Maintenance, Repair, and Overhaul (N-MRO), Naval Supply Chain Management (N-SCM), and Integrated Data Environment (IDE). In addition to transporting authoritative technical data to maintainers in the ashore, afloat, and expeditionary environments, JTDI also automates the movement of CBM+ data generated by smart weapon systems deployed around the globe, consolidates and makes platform sensor data available for automated ingest into the Standard Data Repository, which provides modern, highly integrated analytic capabilities to enable condition-based maintenance processes. JTDI is a digital technical data access, delivery and local Organizational & Intermediate level library management toolset that improves accuracy and timeliness of weapon system repair manuals and other technical data delivery, minimizes the Fleet's library management burden, and reduces maintenance work hours with a Return on Investment of 2.5:1. Funding supports the evaluation, testing and integration to develop a JTDI Government Off-The-Shelf (GOTS) solution for installation on Carrier and Amphibious Assault class ships, the Consolidated Afloat Networks and Enterprise Services Network (CANES), and at other globally deployed Navy/Marine Corps activities. JTDI is aligned with NAVAIR LOG IT digital transformation objectives and Navy Digital Roadmap.

Marine Aviation Logistics Enterprise Information Technology (MAL-EIT) - MAL-EIT funding supports the evaluation, development, testing and integration of software and hardware solutions across all US Marine Corps Aviation activities to be used in the planning and execution of geographically distributed, expeditionary Aviation Logistics (AVLOG) chains in support of deployed USMC Air Combat Element operations. The MAL-EIT Program is one of four programs contained within the Marine Aviation Logistics Support Program (MALSP) modernization program known as MALSP II. Legacy MALSP is nearly 25 years old and grossly inadequate in IT capability to meet the informational, planning, and C2 needs of a dynamic, geographically distributed nodal AVLOG system. MAL-EIT is a Defense Business System Abbreviated Acquisition Program that will develop and deliver the required IT capability necessary to eliminate the IT related gaps existing in the legacy MALSP. MAL-EIT is a family of IT solutions to be developed and delivered in three increments. These increments are depicted below:

Expeditionary Pack Up Kit (EPUK): Provides Expeditionary Supply Operations to include business administration, inventory, and customer service operations.

Next Generation Buffer Management System: Provides buffer management in a time domain, and buffer sizing analysis.

Logistics Planning Tool and Optimizer Tool: Provides capability to develop tailored Remote Expeditionary Support Packages, consumption forecasts, and Nodal Logistics Lay down designs.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy	Date: March 2024
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605013N *I Information Technology Development*

3185 JOINT AIR LOGISTIC INFORMATION SYSTEM (JALIS)

JALIS is an operational scheduling and aircraft management system that facilitates real-time data analysis. JALIS is a critical element in the management of DoD air logistics assets. JALIS allows:

(1) DoD Service Personnel to submit airlift requirements for DoD Personnel and cargo
(2) Air Logistics Flying Units to communicate their aircraft availability in a real-time graphic display
(3) Designated Scheduling Organizations to compare airlift requirements with available aircraft
(4) Designated Scheduling Organizations to create mission assignments

JALIS informs applicable users of mission details and modifications by using a combination of system displays and email updates. JALIS is geographically distributed and has a user base in excess of 4,000 members. JALIS facilitates the movement of thousands of DoD Personnel and tons of cargo annually in support of the following:

(1) Navy Unique Fleet Essential Airlift
(2) Army's Operational Support Airlift Agency (OSAA)
(3) United States Transportation Command (USTRANSCOM)
(4) United States Marine Corps (USMC)

9406 MAINTENANCE DATA WAREHOUSE

Maintenance Data Warehouse funds the Naval Aviation Enterprise (NAE) components, in coordination with Navy LOG-IT, of digital transformation, which is a critical component of improving readiness; giving Navy users access to authoritative truth data and automating inefficient manual processes. It will be executed in a fully agile manner providing continuous fleet readiness improvements across the FYDP. The initial configuration will be supported with an agile Minimal Viable Product (MVP) as the foundation for continuous capability introduction. The Aviation Logistics Environment (ALE) will provide the seamless environment to support the integration of the other capabilities developed in Maintenance Data Warehouse.

Aviation Logistics Environment (ALE) provides the Naval Aviation Enterprise (NAE) components, in coordination with Navy LOG-IT, of digital transformation, which is a critical component of improving readiness; giving Navy users access to authoritative truth data and automating inefficient manual processes. It will be executed in a fully agile manner providing continuous fleet readiness improvements across the FYDP. The initial configuration will be supported with an agile Minimal Viable Product (MVP) as the foundation for continuous capability introduction. The Aviation Logistics Environment (ALE) will provide the seamless environment to support the integration of the other capabilities developed in Maintenance Data Warehouse. Aviation Logistics Environment (ALE) provides a global logistics enterprise solution, delivering capabilities via a net-centric, shared data environment that supports shore-based, afloat, and expeditionary operations. ALE consists of three components; Ground Station, Aviation PLM, and Enterprise Service Bus (ESB). The Maintenance Engineering Ground Station for Aviation (MEGA) is the Naval Aviation Type/Model/Series (T/M/S)-agnostic ground station. MEGA is currently under development using Government off-the-Shelf (GOTS) software and PLM/ESB is configuring Commercial off-the-Shelf (COTS).

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy	Date: March 2024
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605013N *I Information Technology Development*

The Aviation Product Lifecycle Management (Aviation PLM) capability will provide the digital thread of aviation logistics data for allowable and as-configured Repair Bill of Materials (R BOM) sustainment, technical bulletins, technical directives and engineering change proposals, and reliability centered maintenance and maintenance planning. The Enterprise Service Bus (ESB) capability will provide the digital backbone for data connections to and from authoritative data sources. ALE consolidates aging, near-end-of-life systems, and applications and aligns Information Assurance (IA) and cybersecurity requirements.

Aviation Data Warehouse/Decision Knowledge Programming for Logistics Analysis and Technical Evaluation (DECKPLATE) program is the next generation data warehouse containing over 30 years of aircraft maintenance, flight, components, and usage data. Through the use of web-based, commercial off the shelf software for data load, analysis, query, and reporting tools, the user has the capabilities to effectively obtain readiness data in a near real-time environment, as well as providing historical data for long range planning, trend and records analysis, records reconstruction, and compliance with technical directives. DECKPLATE supports the mission of the warfighter who requires a single source of near real-time aviation data in which to base critical readiness decisions. DECKPLATE collects data from authoritative sources, such as the fleet maintenance systems, into a data warehouse. To provide the warfighter with a common view of Logistics IT data, the time consuming tasks of collecting, extracting, transforming, and loading source data will enable an federated data view that will reduce and ultimately eliminate duplicative and manual processes, while providing visibility and access to trusted data for decision support. This also accomplishes a reduction in legacy systems mandated by Office of the Chief of Naval Operations. DECKPLATE manages total inventory for two major categories of assets, Aircraft (General Equipment) and Engine/Propulsion Systems/ Modules (EPSMs) (Operating Materials & Supply). DECKPLATE is comprised of the transactional Aircraft Inventory and Readiness Reporting (DECK-AIRRS) and the Engine Transaction Reporting (DECK-ETR) subsystems, which provide the complete lifecycle for aircraft and Engine/ Propulsion System/Modules (EPSMs). DECKPLATE has been identified as a level 1 financial feeder system due to the value of the aircraft and EPSM's managed in the system, and continues to respond to audit compliance and Cyber Security mandates. DECKPLATE is a core feeder system to numerous NAVAIR efforts.

Condition Based Maintenance Plus (CBM+) solution is an initiative which provides Naval Aviation Enterprise with common enabling capabilities which deliver timely data-driven, decisional information to optimize aircraft availability and materiel readiness by incorporating health and usage leading indicators into the failure mode mitigation process, enabling the Warfighter to more efficiently meet mission requirements through automated analysis and decision making processes. The CBM + initiative increases readiness through streamlined maintenance processes which provide the sustainment base with timely, actionable logistics/engineering data and integrated analytics not previously available, enabling engineers and acquisition professionals to support system improvements based on CBM+ technologies, acquired data, and business process integration of analytic results. CBM+ provides the enabling infrastructure and storage solutions within an Enterprise common environment needed to store and analyze weapon system sensor data to extend the life of current and new acquisition aircraft, realizing savings from reductions in field (organizational and intermediate) maintenance actions, reduced functional check flight hours, mishap mitigation, and reduced parts usage.

Vector supports the development of a common logistics analytical tool suite, which provides a single view of data and insights focused on aircraft readiness, maintenance, supply, cost, and man-hours. Vector provides naval aviation with a common view of approved key performance metrics and the capability to perform multi-system analysis of Ready for Tasking (RFT)/Ready Basic Aircraft (RBA) Gap drivers, 'Top-Down' aircraft systems analysis down to the component level. Vector identifies system performance trends early to mitigate future readiness and cost impacts to the fleet. This is critical for fleet understanding of readiness degraders and issue resolution.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy	Date: March 2024
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605013N *I Information Technology Development*

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	318.103	282.138	258.893	-	258.893
Current President's Budget	308.605	282.138	325.004	-	325.004
Total Adjustments	-9.498	0.000	66.111	-	66.111
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.448	0.000			
• SBIR/STTR Transfer	-9.050	0.000			
• Program Adjustments	0.000	0.000	65.875	-	65.875
• Rate/Misc Adjustments	0.000	0.000	0.236	-	0.236

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2023	FY 2024
Project: 9999: *Congressional Adds*		
Congressional Add: *Warfare mission analysis in cyber contested environment*	4.827	0.000
Congressional Add: *Digital twin development*	6.757	0.000
Congressional Add: *Broadband network for Navy owned research vessels*	8.000	0.000
Congressional Add: *Classified data exchange environment for submarines*	2.653	0.000
Congressional Add: *Cyber supply chain risk management*	4.827	0.000
Congressional Add Subtotals for Project: 9999	27.064	0.000
Congressional Add Totals for all Projects	27.064	0.000

Change Summary Explanation

FY25 programmatic increase of $65.875M from PB24 to PB25 primarily attributed to the following:

$55.7M increase Improves Quality of Service through CNPs Force Management and Enterprise Support Pillars; specifically addresses MyNavy HR IT Development and Modernization, Navy Personnel and Pay (NP2), adds military billets and contract labor to MyNavy Career Center (MNCC) to complete PSD to TSC transition; focusing on Timely Pay and Sailor Service.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy	Date: March 2024
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605013N *I Information Technology Development*

$14.0M increase supports LOG IT modernization efforts in Naval Maintenance, Repair, and Overhaul (N-MRO), Naval Operational Supply System (NOSS), Naval Product Lifecycle Management (N-PLM), Logistics Information Naval Connector (LINC), and Integrated Data Environment (IDE) lines of effort.

$2.3M increase supports initial funding of Cyber Planning and Response Cell (CPRC).

$15.2M increase supports additional agile development and system architecture development requirements, material solution assessments, user capability portals, and increased management services costs in service of the DoN Procurement Portfolio transformation.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy											Date: March 2024	
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605013N / *Information Technology Development*				Project (Number/Name) 2901 / *Navy Enterprise IT*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
2901: *Navy Enterprise IT*	195.452	52.762	37.099	51.850	-	51.850	54.134	34.565	30.184	30.807	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

Realigned the Civilian Human Capital Strategy Project funding to OMN 4A3M.

A. Mission Description and Budget Item Justification

Secretariat Offices

The Department of the Navy Chief Information Officer, Technology Division (DONCIO IT) provides Information Technology (IT), Information Assurance (IA), Information Management (IM), Document Management (DM), Records Management (RM), Knowledge Management (KM) and other related support services to the Secretary of the Navy (SECNAV), Chief of Naval Operations (OPNAV), the DON Secretariat, including political appointees, flag officers and senior executives. This support spans across over 24 organizations, covers nearly 6,000 individual customers, and countless worldwide end users. These services include complete life-cycle software support, software application development, implementation, and post development software support. DONCIO IT is heavily involved in the research and analysis of emerging trends and technologies for use throughout the Secretariat. DONCIO IT is also a valued partner and stakeholder in the development, review, and implementation of all DON and DoD IT related policies that affect the Secretariat members. Additionally, DONCIO IT astutely manages the telecommunication needs of the Secretariat and OPNAV staffs; to include providing state-of-the-art mobile devices, services and support, laptops to promote telework, and a host of other peripherals as needed when these executives travel abroad and around the country. DONCIO IT acts as a trusted agent for the review and approval of all IT related acquisitions across the Secretariat and provides expert guidance on the utilization of DON service contracts that support the purchase of software, hardware and other IT-related functions. DONCIO IT also manages and supports all Cyber Security functions for its Secretariat customers. Furthermore, DONCIO IT manages and supports all administrative requirements and functions of the NMCI/NGEN contract for all Secretariat customers. Database and application development support is required to test, evaluate, and modify current and new systems/capabilities for Secretariat customers.

Navy's Civilian Human Capital Strategy (HCS)

The HCS implements advance discoveries, initiates lines of efforts, conducts pilots, and completes business case analyses designed to improve the DON's ability to access, curate, and engage its workforce.

The HCS Task Force is responsible for designing, conducting, and evaluating limited-scope projects, introducing new or enhanced technologies to develop transformation recommendations for the larger DON enterprise. The HCS aims to streamline DON civilian human capital (HC) investments. This supports 18 Budget Submitting Offices (BSOs), which reported 352 HCS aligned programs and 152 technologies in FY21.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

The HCS is designed to identify opportunities for enterprise-wide HC reform by leading operating concepts and technologies like artificial intelligence and cloud computing. The centralized approach to innovation will minimize the upfront cost of identifying solutions, achieving cloud and cybersecurity compliance, and reduce the cost of investments through scale purchases. Assessments and evaluations contribute to business case analysis reports with recommendations for the Assistant Secretary of the Navy (Manpower & Reserve Affairs) (ASN (M&RA)), Under Secretary of the Navy (UNSECNAV), and/or the Secretary of the Navy (SECNAV) regarding the broader implementation of technologies across the DON.

Funds are used for efforts, such as, technology configuration and automation technology solutions for HR transactions, artificial intelligence (AI), and the development predictive analytics and dashboards in the ADVANA/Jupiter platform. The Task Force evaluates the utility of such technologies in order to develop a data driven business case for wider implementation across the DON.
ELECTRONIC PROCUREMENT SYSTEM (ePS)

The electronic Procurement System (ePS) is the Department of the Navy's (DON) End-to-End (E2E) Contract Writing System (CWS). It will provide the Navy and Marine Corps contracting community with a full contract writing management capability and integrates with federally mandated systems, DON financial systems, and industry. The ePS will utilize Department of Defense (DoD) standards and support auditability. The ePS will address existing CWS challenges including outdated architecture, limited capabilities, scalability concerns, and existing obsolete legacy systems.

Full deployment of the ePS ensures compliance of the DON's contracting abilities with the following legislative mandates: the writing and management of all contracts must now occur in congressionally approved computer systems (Section 862 of the National Defense Authorization Act (NDAA) of 2013); the central management and oversight of all DoD business (10 U.S. Code (U.S.C.) Section 2222); and all contracting actions must be fully auditable and traceable (Section 1003 of the NDAA 2010 & Office of the Secretary of Defense (OSD) Financial Improvement and Audit Readiness (FIAR) Guidance).

The ePS will use DoD data exchange capabilities (e.g., Procurement Data Standard (PDS) and Purchase Request Data Standard (PRDS)) in order to achieve standardized data interoperability with external systems. The Navy Enterprise Service Bus (NESB) serves as the hub to relay procurement data to various finance and other systems of record, such as Navy Enterprise Resource Planning (Navy ERP).

The result of successful ePS implementation will be a contracting workforce that conducts standardized, seamless, end-to-end contract management in a secure computing environment, issuing timely contracts that comply with all DoD/Federal laws, regulations, and policies.

NMCI ENTERPRISE SERVICE TOOLS (NEST)

Next Generation Enterprise Network (NGEN) utilizes the NMCI Enterprise Service Tools (NEST) as an integrated set of tools that facilitate the full-service lifecycle management (SLM) of customer service requests for IT services, including RAPT (Requirement to Award Process Tool), NET (NMCI Enterprise Tool), Task Order Management (TOM), and Enterprise Reporting. NEST is considered a Government Owned and Managed Ordering Defense Business System (DBS) that has a valid ATO.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

NEXT GENERATION ENTERPRISE NETWORK (NGEN) NETWORK ARCHITECHTURE DESIGN AND TESTING

NGEN is utilizing a rapid systems engineering approach, leveraging leading industry experts to design and execute a transformative architecture across the spectrum of services which drives towards the design of the Navy Digital Platform and digital business and service delivery. The Navy Digital Platform (NDP) is a modern digital platform that encompasses optimal cloud consumption, domain singularity, mobility, resilience, and enhanced security. The modernized platform is on parity with industry, which is ready to meet changing mission needs and achieve competitive Naval advantage through a constant state of Information Readiness. Navy's Digitization Journey is dependent upon the Navy's Enterprise Network. The modernized platform will meet today and future mission requirements. This multi-year effort and investment is needed to finalize and adjudicate a Target Enterprise Architecture (TEA), identify obsolescent technologies associated with Navy network platforms, and aid in the integration of users and services, implement enabling business processes and service management frameworks, and provide sustaining activity guidance for future investment areas across all classification levels and operating environments.

NGEN will implement a new network architecture design, a technical enterprise architecture that integrates rationalized users and services, implements enabling business processes and service management frameworks and provides guidance for future investment areas across all classification levels and operating environments. This includes network modeling & simulation, performance-based prototypes and applied research in future technologies affecting network architectures to advance the state of networks across all domains.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Civilian Human Capital Strategy	1.336	0.000	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2024 Plans: N/A					
FY 2025 Base Plans: N/A					
FY 2025 OCO Plans: N/A					
Title: SECNAV Projects IT System Modernization	0.594	0.370	0.600	0.000	0.600
Articles:	-	-	-	-	-
FY 2024 Plans: Continue role as PSO for the RMF Assessment and Authorization requirements of CFMS, which ensures CFMS maintained its ATO on the Navy network. Continue Database development and modification for legacy, current, and future systems. Continue providing Database Administrator development for Oracle and Microsoft					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Structured Query Language (MS SQL) based systems and applications. Provide Application Developer support to modify current systems and develop new systems/capabilities for Secretariat customers. ***FY 2025 Base Plans:*** Continue role as PSO for the RMF Assessment and Authorization requirements of CFMS, which ensures CFMS maintained its ATO on the Navy network. Continue Database development and modification for legacy, current, and future systems. Continue providing Database Administrator development for Oracle and Microsoft Structured Query Language (MS SQL) based systems and applications. Provide Application Developer support to modify current systems and develop new systems/capabilities for Secretariat customers. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 increase ($0.230M) supports additional costs in the next option year of the contract due to increased requirements for research, development and testing of applications in support of IT System Modernization projects.					
Title: Electronic Procurement System (ePS)	19.959	17.142	31.954	0.000	31.954
Articles:	-	-	-	-	-
FY 2024 Plans: Navy ePS will build on the initial MVCR with additional capabilities, interfaces, and enhancements to the CCM. In parallel with continued planning efforts utilizing agile ceremonies, the program's development teams will work in agile sprints to release scheduled procurement functionalities and enhancements to the end user. Based on the current roadmap and capability assumptions, new users will continuously transition to ePS with each capability release as they cut over from legacy systems. Total end-user count is expected to be ~16,000 at full operational capability. The ePS roadmap will evolve according to MSA outcomes, requirement prioritization, and capability delivery complexity to be determined during agile ceremonies. Capability developments will enable enhanced contract type development, business intelligence, pre-procurement documentation, file storage, contract solicitation, and continuous enhancements to the CCM.					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
FY24 planned releases include: - Q1: R1.0.X o ePS - PPMAP 1.0 - Performance Management Assessment Program (PPMAP) o ePS - CCM 1.0.X - Defect Resolution, Additional Interfaces, and Capabilities - Q2: R1.1 o ePS - PPP 1.0 - Pre-Procurement Planning o ePS - CCM 1.1 - Enhanced Acquisition Type Contracting - Q3: R1.2 o Business Intelligence Migration o ePS - FILE 1.0 - File Storage Compliance o ePS - CCM 1.2 - Backlog Prioritized Requirements - Q4: R1.3 o ePS - SOL 1.0 - Contract Solicitation o ePS - CLS 1.0 - Clause Selection Capability o ePS - CCM 1.3 - Backlog Prioritized Requirements					
FY 2025 Base Plans: In FY25, ePS will accelerate solution architecture development, additional capability releases, and solution upgrades for previously released capabilities. The program will maintain its agile cadence to refine capability modules and services, as well as continue accession of additional users with each capability release. Additionally, ePS engineers will continue to develop interfaces at the data and user layers to support product life-cycle delivery requirements as the ePS application matures. As a result, new and existing interfacing systems require robust system architecture modernization to support capability transitions, user accession, and system integrity, which will operate in parallel to continuous agile capability development and deployment. Market research will continue to identify capability gaps throughout the development process. MSAs will support capability gap identification and mitigation to produce solution roadmaps. FY25 major capability releases will include: - Q1: R2.0 o ePS - IT 1.0 - IT Procurement Capability o ePS - CCM 1.4 - Backlog Prioritized Requirements					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
- Q2: R2.1 o ePS - PPP 2.0 - Backlog Prioritized Requirements o ePS - FILE 2.0 - Backlog Prioritized Requirements o ePS - CCM 1.5 - Backlog Prioritized Requirements o ePS - CON 1.0 - Construction and Architecture Engineering Procurement - Q3: R2.2 o ePS - SOL 2.0 - Backlog Prioritized Requirements o ePS - SVC 1.0 Service Acquisition - Centralized Contract Vehicle Capability o ePS - VND 1.0 - Vendor Portal and Engagement Capabilities o ePS - CCM 1.6 - Backlog Prioritized Requirements - Q4:R2.3 o ePS - OTA 1.0 - Other Transaction Agreements/Authorities (OTAs) o ePS - CLS 3.0 - Backlog Prioritized Requirements o ePS - ADM 1.0 - Contract Administration, Monitoring, and Schedules o ePS - CCM 1.7 - Backlog Prioritized Requirements ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 increase ($14.812M) supports an increased analytical workload, capability prioritization and enhancements, rapidly increasing system architecture modernization for interfacing systems, increased capability release velocity into production environment, and solution development in support of user accession waves.					
Title: NMCI Enterprise Service Tools (NEST)	5.168	5.298	0.958	0.000	0.958
Articles:	-	-	-	-	-
Description: Key objectives for Network Management - NMCI Enterprise Service Tools (NEST): - The NMCI Enterprise Service Tools (NEST) is an integrated set of tools that facilitate the full service lifecycle management (SLM) of customer service requests for IT services, including RAPT (Requirement to Award Process Tool), NET (NMCI Enterprise Tool), Task Order Management (TOM), and Enterprise Reporting. NEST is considered a Government Owned and Managed Ordering, Defense Business System (DBS) that has a valid ATO.					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
- NEST is officially the single contract writing system for the DON's (i.e. all of Navy, including OCONUS, and USMC) NGEN-R contracts. NEST absorbed historically vendor-owned functionality and integrated the DoD's compliance standards, bringing NGEN-R into the DoD's Procure-to-Pay (P2P) space. Part of the requirement of adhering to P2P standards involved interfacing with 7+ systems. The team is continuously interfacing with new systems to comply with compliance mandates and Financial Acquisition and Regulation (FAR) clauses. - Serving as a NGEN ordering tool for Navy and USMC, NEST serves an extensive user base of more than 3,000 users and services 1.1M+ Navy and USMC service members globally. With this many users, NEST handles a large amount of financial transactions, with nearly $1B of annual obligations processed within the tools. - The NEST team serves as a centralized link between enterprise and project level activities, while maintaining and operating all NEST functions, including O&M support and strategic PMO work. Some of those activities include but are not limited to: executive guidance and brief support, end-to-end software development lifecycle implementation in accordance with CMMI (Capability Maturity Model Integration) level 5, prioritization of program missions/objectives, RMF/IA support/process definition, risk management, and FY planning & road mapping. - In support of the implementation of the ePS, NEST capabilities and tools will be separated and enhanced in a manner that aligns with and enables the DON strategic vision to rationalize and consolidate Contract Writing System (CWS) and procurement capabilities, while sustaining and maintaining critical service lifecycle management functions for NGEN-R ordering and NEN support. ***FY 2024 Plans:*** NEST support will prioritize the implementation of Navy contract writing systems (CWS) interfaces to support NMCI ordering future state, and will finalize remaining requirements and end-state integration. NEST will continue to support the system compliance with amendments to the mandated DoD/DON procurement policies and upgrade the database accordingly, including implementation of financial management system integrations to automatically ingest purchase request data that will streamline ordering, automate data entry, and improve data consistency and accuracy. NEST will continue the analysis and implementation of COTS solutions for a contract management module to improve ability to ingest and manage base contract details that feed into NEST ordering. This would reduce manual administration while increasing the standardization and use cases for NEST. Also NEST system will continue upgrading to support NGEN IT Services requirements in a multi-vendor					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
environment, and we are currently in Limited Deployment Authority to Proceed (ATP), specifically FY24 funds will be used for efforts to separate contract writing and other financial data aspects of the NEST tools and the logistical capabilities of our existing end-to-end systems, as well as collaborating with other DON ACQ system owners (CWS Tools) to identify acquisition capability alignments to satisfy the Capability Portfolio Management requirements in accordance with DoN acquisition portfolio strategy and roadmap. ***FY 2025 Base Plans:*** NEST support will continue the initial implementation of Navy contract writing systems (CWS) interfaces to support NMCI ordering future state. NEST system will continue upgrading to support NGEN IT Services requirements in a multi-vendor environment, specifically FY25 funds will be used for efforts to separate contract writing and other financial data aspects of the NEST tools and the logistical capabilities of our existing end-to-end systems, as well as collaborating with other DON ACQ system owners (CWS Tools) to identify acquisition capability alignments to satisfy the Capability Portfolio Management requirements in accordance with DoN acquisition portfolio strategy and roadmap. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 decrease ($4.340M) is due to system maturation, operational stability, and maintenance requirements vice code development.					
Title: Live, Virtual, and Constructive (LVC) Training Development	3.517	0.000	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2024 Plans: N/A ***FY 2025 Base Plans:*** N/A ***FY 2025 OCO Plans:*** N/A					
Title: Warfighting Readiness Assessment - Force Level Integration Tool (FLINT)	2.561	0.308	0.767	0.000	0.767
Articles:	-	-	-	-	-
FY 2024 Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
FLINT will continue to utilize an iterative, human-centered design process that maximizes use of frequent user feedback and engagement, automated software testing, and continuous and automated cybersecurity monitoring and assessments to rapidly and iteratively design, develop, integrate, test, accredit, and deliver reliable software capabilities that meet priority user needs. FY24 funding will continue agile development of the DevSecOps production environment and accomplish the following: - Complete Data Environment Gap Analysis - Q1 - Complete POM Automation Suite Rank Functionality - Q1 - Complete POM Automation Suite Value Monitoring Functionality - Q1 - Complete POM Automation Suite Optimization Functionality - Q2 - Complete Data Digitization efforts - Q2 - Continue Data Architecture and Engineering activities - Continue Knowledge Management Platform Development - Continue Empowered Valuation Criteria (simple adjustment) effort - Initiate Artificial Intelligence Enhancements ***FY 2025 Base Plans:*** FLINT will begin shifting from foundational requirements toward "Maximizing Naval Power" root cause solutions, specifically aiding decision makers with autonomously linked research and analysis artifacts, live feed data-driven decisions, intelligent trade-responsive risk assessments, and a precise risk/benefit Valuation ingestion and analysis methodology. The expected result is a system of solutions which empowers an individual analyst to make data-informed wide-scope decisions replete with holistic external impact assessments, while providing a collaborative trade-space platform for collective decision modeling. All these capabilities can be found in					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
the following list; however, the domain of future technologies is planned for further decomposition upon task initiation. - Support Incremental Enhancements to Knowledge Management Platform - Support Incremental Enhancements to Data Architecture and Engineering - Complete Empowered Valuation Criteria (advanced revision) effort - Q3 - Complete Artificial Intelligence Enhancements - Q3 ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 increase ($0.459M) due to ramp up of Artificial Intelligence and Advanced Valuation Criteria development.					
Title: NGEN Network Architecture Design and Testing	19.627	13.981	17.571	0.000	17.571
Articles:	-	-	-	-	-
Description: Key objectives for NGEN Network Architecture Design and Testing: - Transport, Compute and Storage Architecture and Design: Mission is to deliver a modern digital domain, on parity with industry, which is ready to meet changing mission needs and achieve competitive advantage through a constant state of information readiness. This investment is to align modern service design and implementation to the Navy's Technical Enterprise Architecture (TEA) that replaces obsolete technologies associated with NMCI and ONENet platforms, integrate rationalized users and services, implement enabling business processes and service management frameworks and provide guidance for future investment areas across all classification levels and operating environments. - Core Application Services Architecture and Design: Refactor core applications and services to transition to future state as a component of the move to M365 Software as a Service (SaaS) environment. - Integrated Navy Operations Command and Control System (INOCCS) Framework and Fleet Design for DODIN Operations: The INOCCS framework provides the foundation for an Operational Support System (OSS)					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
that enables DoDIN Ops, Defensive Cyberspace Operations (DCO), cybersecurity, and informs Offensive Cyberspace Operations (OCO). Testing will include conducting technical comparisons of vendor products required to upgrade the network (AoA activities). Participating in technical exchange meetings related to OSS, service and resource management, data analytics and visualizations, DCO, defining cyberspace concept of operations, documenting an INOCCS reference architecture, information system security engineering in support of receiving an Authority to Operate, and documenting implementation and transition strategies for INOCCS. ***FY 2024 Plans:*** NGEN will continue engineering development to implement a new network architecture design; a technical enterprise architecture that integrates rationalized users and services, implements enabling business processes and service management frameworks and provides guidance for future investment areas across all classification levels and operating environments. In FY24 NGEN will continue to conduct: - Network modeling & simulation, review performance-based prototypes, and institute applied research in future technologies affecting network architectures to advance the state of network across all domains. - Testing and evaluation for transport, compute and storage architecture and design in a lab or at a pilot site to establish baseline for the SMIT vendor. Additionally, continue engineering support to develop a future state architecture in a lab setting that will leverage existing infrastructure on premise applications and services to ensure a seamless transition between managed on premise and managed-off premise user access to M365 capabilities. - Engineering to rehome / migrate OCONUS (ONE-Net) sites to enterprise common services following the DON CIO Modern Service Delivery Design Concepts for small sites and transport services for both large and small sites. - Implementation and transition strategies for INOCCS by: * Conducting INOCCS testing to include technical comparisons of vendor products required to upgrade the network (AoA activities). * Coordinating technical exchange meetings related to OSS, service and resource management, data analytics and visualizations, and DCO. * Providing information system security engineering support to define cyberspace concept of operations that will document an INOCCS reference architecture to receive an Authority to Operate.					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
- New pilots will begin in FY24. The PEO will further refine and improve the "pilot to production" framework so that it can easily be applied across all digital enterprise services. Priority pilots will be executed in partnership with PEO Digital, FCC, NNWC and other stakeholders to address key strategic needs such as Last Mile, Fix My Computer and within themes of automation, INOCCS. These pilots will be prioritized based on funding available, largest Naval need, WAM hypothesis and the PEO investment horizon charts. These pilots are aimed at rapidly testing, deploying and delivering modern services to enable warfighters to focus on their mission area vice IT challenges and inefficiencies. These pilots will be evaluated based on the PEO's Worldclass Alignment Metrics (WAM) to determine whether they should be further refined and scaled into production. Due to budget reduction, certain ODMs will not be addressed with pilots in FY24. The Mission Outcome Driven Metrics (ODMs) are: Time lost, operational resilience, customer satisfaction, cost per user and adaptability/mobility which are all in support of 2 Mission Outcomes of: drastically improved IT experience with increased resilience.					
FY 2025 Base Plans: NGEN Network Architecture Design and Testing: NGEN will continue engineering development to implement a new network architecture design; a technical enterprise architecture that integrates rationalized users and services, implements enabling business processes and service management frameworks and provides guidance for future investment areas across all classification levels and operating environments. In FY25 NGEN will continue to conduct: - Continue network modeling & simulation, review performance-based prototypes, and institute applied research in future technologies affecting network architectures to advance the state of network across all domains. - Continue testing and evaluation for transport, compute and storage architecture and design in a lab or at a pilot site to establish baseline for the SMIT vendor. Additionally, continue engineering support to develop a future state architecture in a lab setting that will leverage existing infrastructure on premise applications and services to ensure a seamless transition between managed on premise and managed-off premise user access to M365 capabilities. - Continue engineering to rehome / migrate OCONUS (ONE-Net) sites to enterprise common services following the DON CIO Modern Service Delivery Design Concepts for small sites and transport services for both large and small sites.					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
- Implementation and transition strategies for INOCCS by: * Completing INOCCS testing to include technical comparisons of vendor products required to upgrade the network (AoA activities). * Coordinating technical exchange meetings related to OSS, service and resource management, data analytics and visualizations, and DCO. * Providing information system security engineering support to define cyberspace concept of operations that will document an INOCCS reference architecture to receive an Authority to Operate. - NGEN will continue and increase the level of effort, modern service deliveries and number of pilot efforts. Priority pilots will be executed in partnership with PEO Digital, FCC, NNWC and other stakeholders to address key strategic needs and emergent technology trends such as Last Mile, Fix My Computer and Naval Identity Services and within themes of automation, AI/ML, SIPR 2.0, and data as well as additional themes based on technology trends. These pilots will be prioritized via Lean Portfolio Management based on WAM hypothesis, funding available, largest Naval need and the PEO investment horizon charts. These pilots will be evaluated based on the PEO's Worldclass Alignment Metrics (WAM) to determine whether they should be further refined and scaled into production. The Mission Outcome Driven Metrics (ODMs) are: Time lost, operational resilience, customer satisfaction, cost per user and adaptability/mobility which are all in support of 2 Mission Outcomes of: drastically improved IT experience with increased resilience. These pilots not only support PEO Digital and the enterprise services it is delivering but due to the groundbreaking efforts on delivering modern services to the Navy, the DOD and other services are partnering with us to leverage and learn from our efforts. This results in cost avoidance and time savings at the DOD level with measured outcomes that other services can take and leverage for their efforts. These pilots also result in significant cost and time savings within the Navy as application and system owners will be consuming these enterprise services vice creating one-off solutions of their own. This increases our security posture, our resilience and the IT experience for the customers. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 increase ($3.590M) supports additional pilots to be executed with a fully mature "pilot to production" framework which will lead to more efficient and effective implementation of modern services, increased security and customer satisfaction and quicker divestments of legacy solutions (Cattle Drive).					
Accomplishments/Planned Programs Subtotals	52.762	37.099	51.850	0.000	51.850

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• 4A3M: *Human Capital Operating Plan*	7.900	8.059	8.223	-	8.223	8.390	8.560	8.733	8.916	Continuing	Continuing
• OPN LI 8106: *Command Support Equipment - LVC*	1.006	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	2.882
• OPN LI 8164: *NGEN Investments*	201.314	176.087	176.051	-	176.051	176.135	179.635	183.228	0.000	0.000	1,267.450

Remarks

D. Acquisition Strategy

DONCIO IT will award option year 2 of the cost-plus-fixed-fee contract in September 2022, via the Naval Supply Systems Command (NAVSUP).

HCS: Programs will use existing government contracting vehicles and competitive processes, where appropriate, to configure extant private-sector solutions to meet requirements and buy licenses to access those products.
ELECTRONIC PROCUREMENT SYSTEM (ePS)

The ePS program will award a 5 year contract to a Portfolio Coordinator (ePC) who will provide the full range of systems engineering, software engineering, project management, integration, testing, deployment, and application sustainment services to deliver an ePS MVCR to its users and continue development of the ePS technical and functional capability roadmap for subsequent releases.

The program plans to select solutions to meet the individual business process requirements using a Capability Analysis (CA) approach based on the Material Solutions Analysis (MSA) process. A continuously integrated team of functional owners, program managers and systems engineers execute MSAs for each required capability. The program office will collaborate with DASN(P) to perform a combination of market research, fit-gap analysis, and MSAs to identify and evaluate potential solutions using a "make, buy or reuse decision" process against the required capability, balanced with identified funding and technical constraints. The program office relies on MSAs both to inform the agile process for required component integration, enhancement, or development and to enable the portfolio approach.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Development (Modernization)	C/FP	CACI : Chantilly, VA	4.555	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Contractor Engineering Support (DONCJIS) (Modernization)	SS/T&M	Interimage Inc. : Manassas, VA	1.272	0.000		0.000		0.000		-		0.000	0.000	1.272	-
Software Development (Modernization)	C/FP	Dell Marketing LP : Round Rock, TX	1.938	0.000		0.000		0.000		-		0.000	0.000	1.938	-
Software Development (CLEOC) (Modernization)	C/FP	NSA : Various	0.500	0.000		0.000		0.000		-		0.000	0.000	0.500	-
SYSTEM Moderization (Modernizaation)	WR	NIWC LANT : CHARLESTON, SC	4.026	0.000		0.000		0.000		-		0.000	0.000	4.026	-
CORB SYSTEM Modernization (Modernization)	WR	NIWC LANT : CHARLESTON, SC	2.002	0.000		0.000		0.000		-		0.000	0.000	2.002	-
Software Development (Modernization)	C/CPFF	Booz Allen Hamilton (BAH) : McLean, VA	1.219	0.394	Sep 2023	0.246	Sep 2024	0.333	Sep 2025	-		0.333	0.000	2.192	-
Software Development (Modernization)	C/CPFF	SAIC : Reston, VA	1.039	0.000		0.000		0.000		-		0.000	0.000	1.039	-
HCS Artificial Intelligence	TBD	TBD : TBD	0.746	0.860	May 2023	0.000		0.000		-		0.000	0.000	1.606	-
HCS Digital HR	MIPR	Rock Island Arsenal : Rock Island, IL	0.800	0.420	Apr 2023	0.000		0.000		-		0.000	0.000	1.220	-
HCS Predictive Analysis	TBD	TBD : TBD	0.100	0.015	Mar 2023	0.000		0.000		-		0.000	0.000	0.115	-
HCS Learning Management System	TBD	TBD : TBD	0.039	0.041	Feb 2023	0.000		0.000		-		0.000	0.000	0.080	-
Prior Year Development Costs	Various	Various : Various	76.724	0.000		0.000		0.000		-		0.000	0.000	76.724	-
ePS Agile System Integrator Development (ePC)	Various	Various : Various	0.000	8.341	Aug 2023	2.368	Aug 2024	10.130	Aug 2025	-		10.130	Continuing	Continuing	Continuing
ePS MCBOSS Cloud Services	IA	NIWC LANT : Charleston, SC	10.759	1.289	Jun 2023	1.698	Jun 2024	2.028	Jun 2025	-		2.028	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
ePS Production Environment Licenses	C/CPFF	Appian : Mclean, VA	0.000	0.000		4.000	Dec 2023	0.000		-		0.000	Continuing	Continuing	Continuing
ePS System Architecture Development and Modernization	Various	Various : Various	0.000	1.506	Feb 2023	3.373	Feb 2024	10.701	Feb 2025	-		10.701	Continuing	Continuing	Continuing
ePS Engineering Services	Various	Various : Various	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
ePS Systems Engineering	Various	Various : Various	27.123	1.037	Dec 2022	0.294	Dec 2023	0.564	Dec 2024	-		0.564	Continuing	Continuing	Continuing
Force Level Integration Tool (FLINT)	FFRDC	Georgia Tech Research Institute : Atlanta, GA	4.985	2.561	Jan 2023	0.308	Jan 2024	0.767	Jan 2025	-		0.767	Continuing	Continuing	Continuing
LVC Scenario Development and Training	C/FFP	NAVWAR NIWC PAC : San Diego, CA	1.399	0.517	Dec 2022	0.000		0.000		-		0.000	0.000	1.916	-
LVC Warrior Integration	FFRDC	NAVAIR : Patuxent River, MD	2.364	1.000	Dec 2022	0.000		0.000		-		0.000	0.000	3.364	-
LVC Virtual Wizard / Next Generation Threat Simulator (NGTS)	C/FFP	NAVAIR : Patuxent River, MD	2.800	1.500	Dec 2022	0.000		0.000		-		0.000	0.000	4.300	-
Design Engineering Support (NGEN)	WR	NIWC PAC : San Diego	0.000	4.027	Mar 2023	3.526	Mar 2024	3.763	Mar 2025	-		3.763	Continuing	Continuing	Continuing
Design Engineering Support (NGEN)	WR	NIWC LANT : Charleston, SC	0.000	2.283	Feb 2023	1.170	Feb 2024	1.334	Feb 2025	-		1.334	Continuing	Continuing	Continuing
Design Engineering Support (NGEN)	C/CPFF	Booz Allen Hamilton : McLean, VA	0.000	5.124	Dec 2022	3.543	Dec 2023	3.713	Dec 2024	-		3.713	Continuing	Continuing	Continuing
Design Engineering Support (NGEN)	C/CPFF	GTRI : Arlington, VA	0.000	4.063	Jan 2023	3.575	Jan 2024	2.435	Jan 2025	-		2.435	Continuing	Continuing	Continuing
Design Engineering Support (NGEN)	C/CPFF	2Twelve : Reston, VA	0.000	4.130	Apr 2023	2.167	Apr 2024	2.726	Apr 2025	-		2.726	Continuing	Continuing	Continuing
Design Engineering Support (NGEN)	WR	DTIC : Fort Belvoir, VA	0.000	0.000		0.000		3.600	May 2025	-		3.600	Continuing	Continuing	Continuing
		Subtotal	144.390	39.108		26.268		42.094		-		42.094	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract

Remarks

SECNAV Projects IT System Modernization funding supports database development and modification for legacy, current, and future systems.
HCS FY 2024 funding has been realigned to OMN to support civilian Human Capital business process improvement and modernization efforts and associated solutions centered around technology license fees, configuration support, and infrastructure / integration.
FLINT: Program cost increases in FY25 represent increasingly complex development efforts for automation optimization and artificial intelligence enhancements and capability delivery.

ePS: Program increases will fund ramp up in system architecture development requirements, accelerated capability releases, and major interface development and agile backlog priorities in accordance with the capability release roadmap milestones.

NGEN: Increase government and industry engineering support for pilots being conducted mainly at NIWC LANT (some portion is contractor support)

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Prior Year Support Costs	Various	Various : Various	16.448	0.000		0.000		0.000		-		0.000	0.000	16.448	-
ePS Cost Analysis	C/CPFF	NAVWAR : San Diego, CA	1.853	0.359	Aug 2023	0.645	Aug 2024	0.397	Aug 2025	-		0.397	Continuing	Continuing	Continuing
ePS Program Support	Various	Various : Various	0.000	3.682	Oct 2022	2.555	Oct 2023	3.654	Oct 2024	-		3.654	Continuing	Continuing	Continuing
System Engineering Support (NEST)	C/CPFF	Deloitte : Rosslyn, VA	20.915	5.168	Jun 2023	5.298	Jun 2024	0.958	Jun 2025	-		0.958	Continuing	Continuing	Continuing
		Subtotal	39.216	9.209		8.498		5.009		-		5.009	Continuing	Continuing	N/A

Remarks

Program support costs will increase in subsequent years as a result of realized inflationary adjustments to reimbursable and contract labor in support of continued material solution and capability development and delivery assessment activities.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	C/CPFF	Booz Allen Hamilton (BAH) : McLean, VA	0.600	0.200	Sep 2023	0.124	Sep 2024	0.267	Sep 2025	-		0.267	0.000	1.191	-
Prior Year Developmental Test & Evaluation Not Funded FYDP (PYDT&E)	C/FFP	NIWC LANT : Charleston, SC	0.800	2.333	Oct 2022	0.000		0.000		-		0.000	0.000	3.133	-
Developmental Test & Evaluation (DT&E)	Various	Various : Various	7.807	0.409	Oct 2022	0.235	Oct 2023	0.392	Oct 2024	-		0.392	Continuing	Continuing	Continuing
		Subtotal	9.207	2.942		0.359		0.659		-		0.659	Continuing	Continuing	N/A

Remarks

Assessment and Authorization (A&A) requirements.

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
ePS Program Management Services	Various	Various : Various	1.139	1.003	Oct 2022	1.974	Oct 2023	4.088	Oct 2024	-		4.088	Continuing	Continuing	Continuing
LVC Program Management	C/FFP	NIWC PAC : San Diego, CA	1.500	0.500	Dec 2022	0.000		0.000		-		0.000	0.000	2.000	-
		Subtotal	2.639	1.503		1.974		4.088		-		4.088	Continuing	Continuing	N/A

Remarks

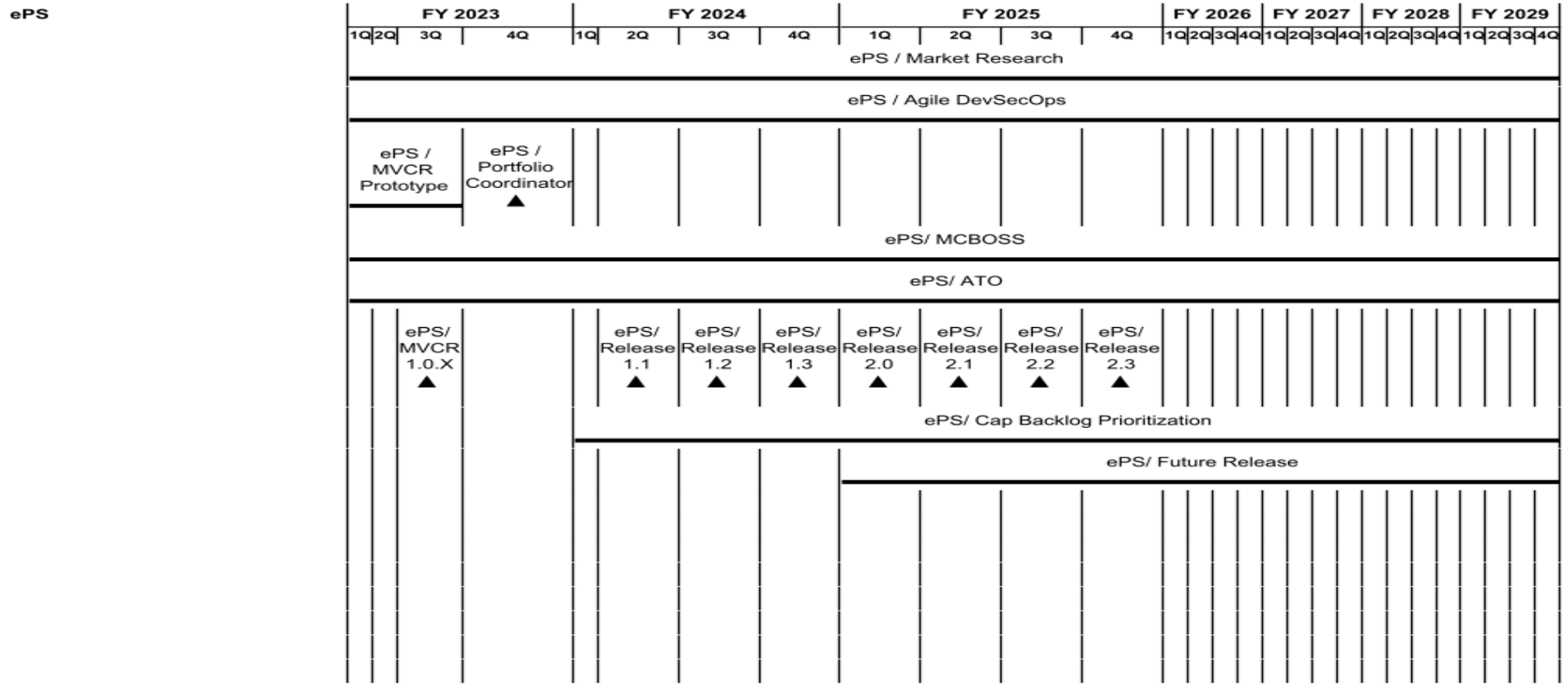
Increase to program management services costs in direct support of program growth and acceleration of development requirements and capability release schedule.

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	195.452	52.762		37.099		51.850		-		51.850	Continuing	Continuing	N/A

Remarks

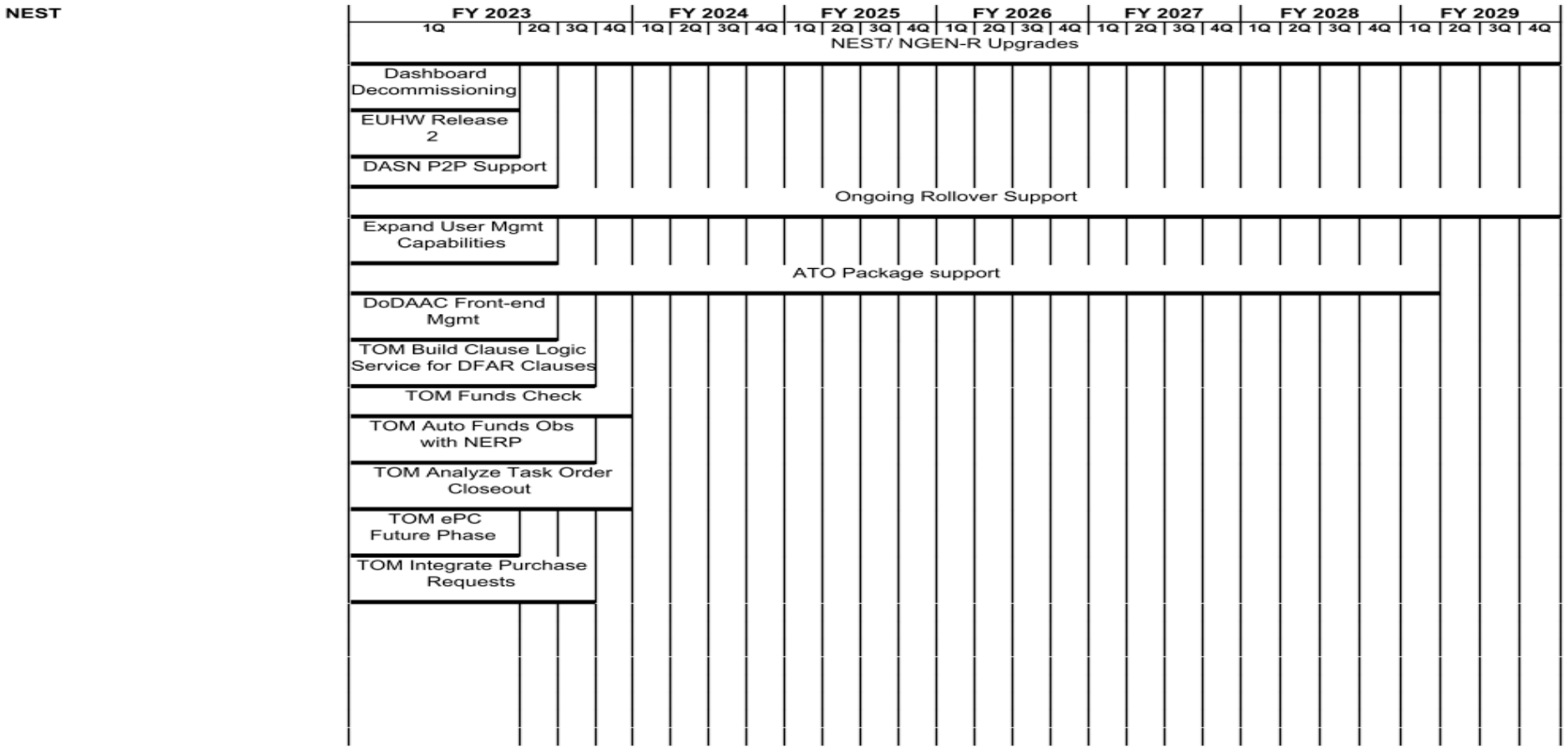
HCS FY 2024 funding has been realigned to OMN to support civilian Human Capital business process improvement and modernization efforts and associated solutions centered around technology license fees, configuration support, and infrastructure / integration.

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*



2025PB - 0605013N - 2901.S39

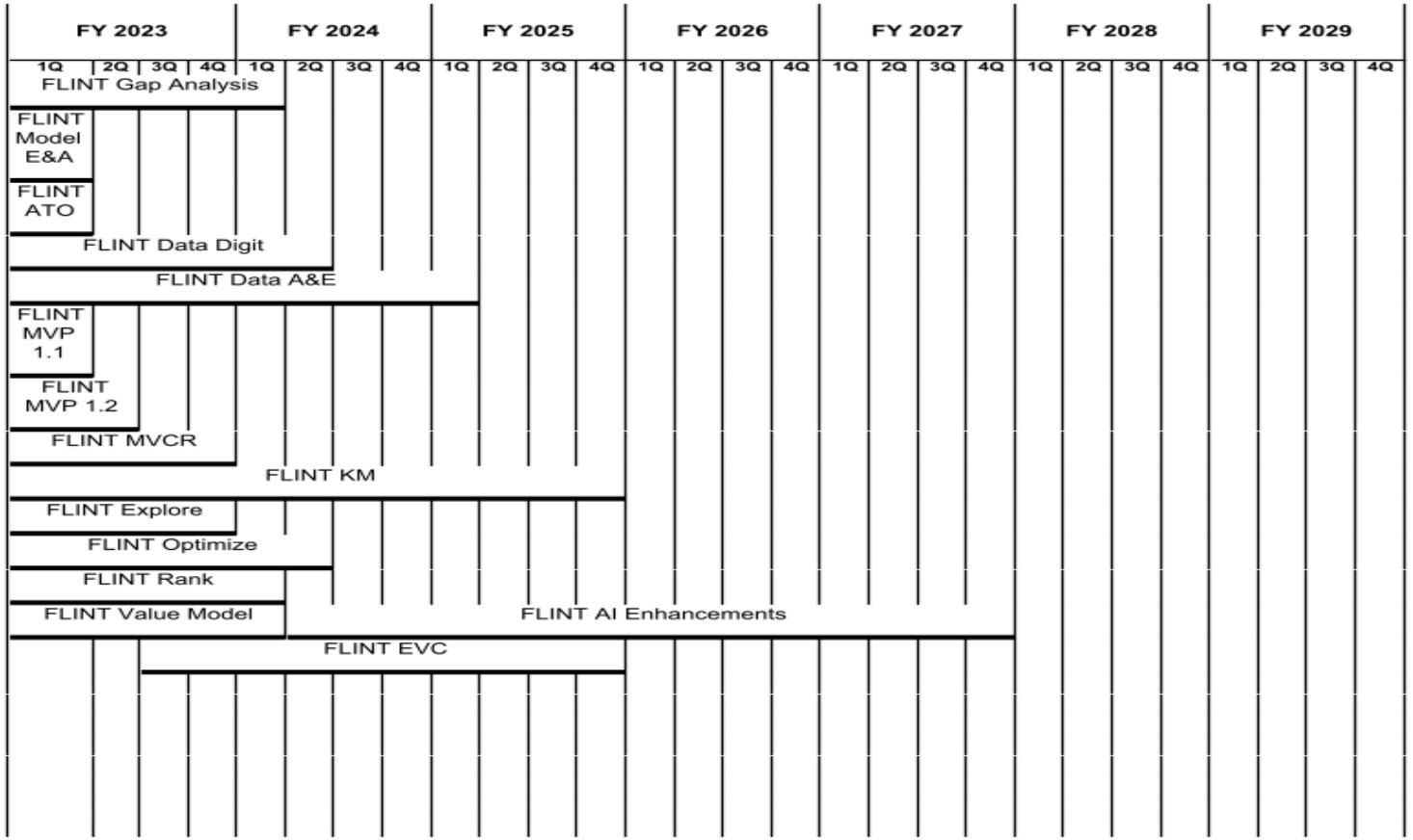
Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*



2025PB - 0605013N - 2901.S39

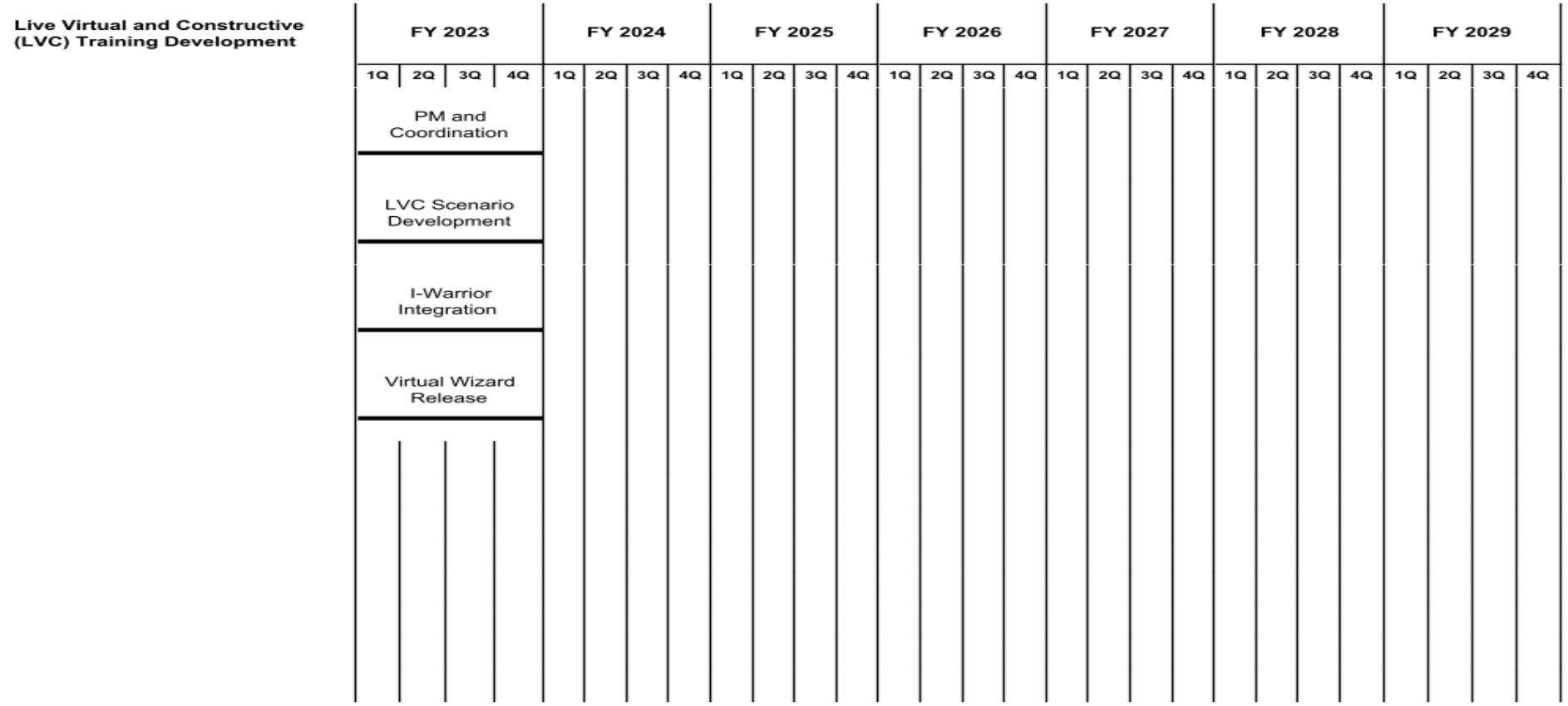
Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

Warfighting Readiness Assessment - Force Level Integration Tool (FLINT)



2025PB - 0605013N - 2901.S39

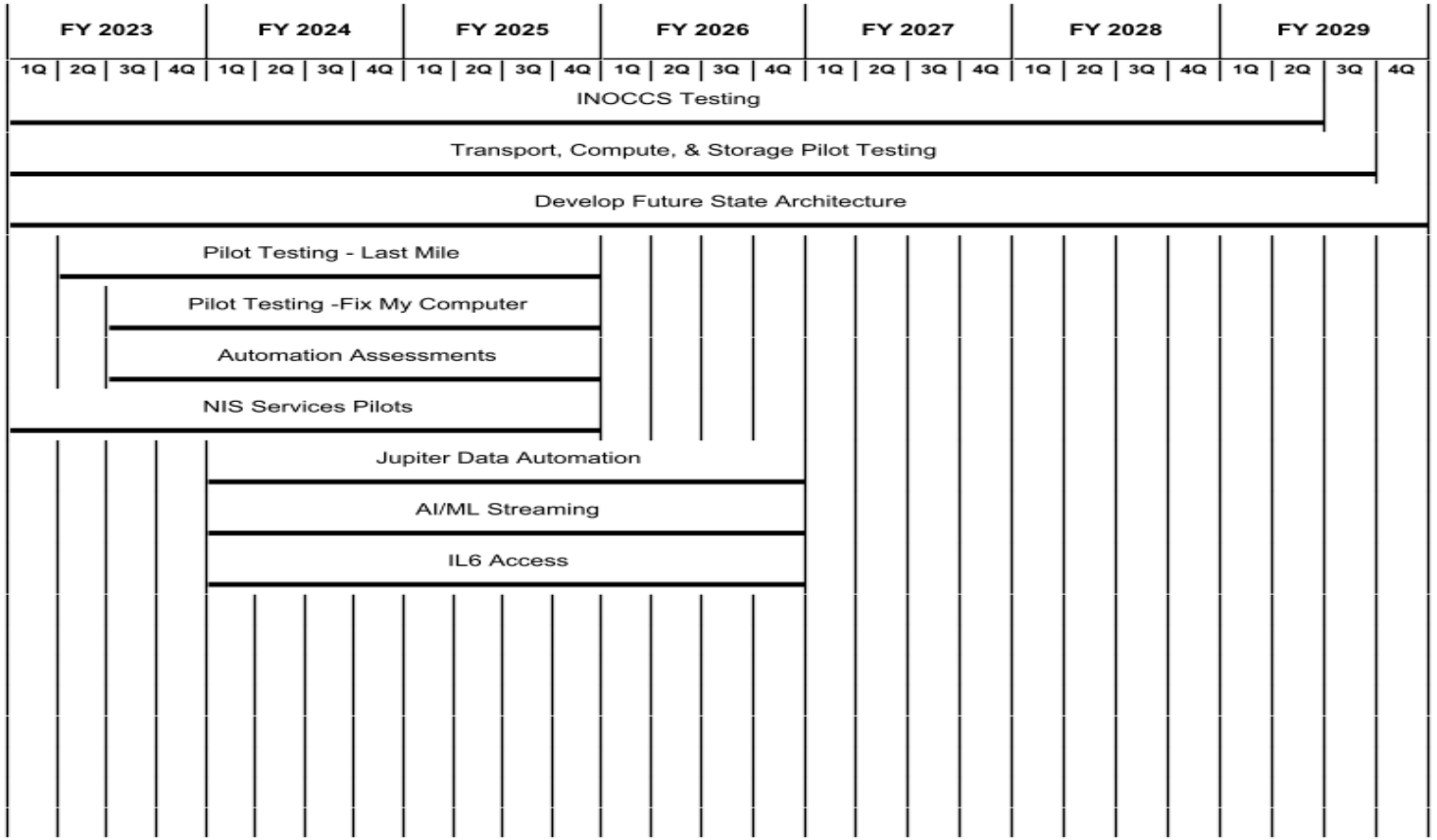
Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*



2025PB - 0605013N - 2901.S39

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

NGEN Architecture Design and Testing



2025PB - 0605013N - 2901.S39

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 2901.L12				
SECNAV Projects IT System Modernization: Technology Development	1	2023	4	2029
SECNAV Projects IT System Modernization: System Development & Demonstration	1	2023	4	2029
SECNAV Projects IT System Modernization: System Testing	1	2023	4	2029
SECNAV Projects IT System Modernization: Production & Deployment	1	2023	4	2029
Civilian Human Capital Strategy: Pre-implementation / Configuration Preparations	1	2023	4	2023
ePS				
ePS - Market Research and Capability Delivery Assessment Activities	1	2023	4	2029
ePS - Agile Development and DevSec Ops	1	2023	4	2029
ePS - MVCR Prototyping	1	2023	3	2023
ePS - Portfolio Coordinator Contract Award (System Integrator)	4	2023	4	2023
ePS - MCBOSS Cloud Support Integration	1	2023	4	2029
ePS - Continuous Authority to Operate	1	2023	4	2029
ePS - MVCR Release 1.0.X	3	2023	3	2023
ePS - Release 1.1	2	2024	2	2024
ePS - Release 1.2	3	2024	3	2024
ePS - Release 1.3	4	2024	4	2024
ePS - Release 2.0	1	2025	1	2025
ePS - Release 2.1	2	2025	2	2025
ePS - Release 2.2	3	2025	3	2025
ePS - Release 2.3	4	2025	4	2025
ePS - Continuous Capability Backlog Prioritization	1	2024	4	2029

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
ePS - Future MVCR Releases	1	2025	4	2029
NEST				
NEST/ NGEN-R Upgrades	1	2023	4	2029
NEST Enterprise Report - Dashboard Decommissioning	1	2023	1	2023
NET - EUHW Release 2	1	2023	1	2023
NEST - DASN P2P Support	1	2023	2	2023
NEST - Ongoing Rollover Support	1	2023	4	2029
NEST Common Launch - Expand User Mgmt Capabilities	1	2023	2	2023
NEST - ATO Package support	1	2023	1	2029
NEST - DoDAAC Front-end Mgmt	1	2023	2	2023
NEST - TOM Build Clause Logic Service for DFAR Clauses	1	2023	3	2023
NEST - TOM Funds Check	1	2023	4	2023
NEST - TOM Auto Funds Obs with NERP	1	2023	3	2023
NEST - TOM Analyze Task Order Closeout	1	2023	4	2023
NEST - TOM ePC Future Phase	1	2023	1	2023
NEST - TOM Integrate Purchase Requests	1	2023	3	2023
Warfighting Readiness Assessment - Force Level Integration Tool (FLINT)				
FLINT Data Environment Gap Analysis	1	2023	1	2024
FLINT Model Evaluation and Selection	1	2023	1	2023
FLINT Authority to Operate	1	2023	1	2023
FLINT Data Digitization	1	2023	2	2024
FLINT Continuous Data Architecture and Engine	1	2023	1	2025
FLINT Minimum Viable Product 1.1	1	2023	1	2023
FLINT Minimum Viable Product 1.2	1	2023	2	2023
FLINT Minimum Value Capability Release	1	2023	4	2023

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2901 / *Navy Enterprise IT*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
FLINT Continuous Knowledge Management Platform Development	1	2023	4	2025
FLINT POM Automation Suite Explore Functionality	1	2023	4	2023
FLINT POM Automation Suite Optimization Functionality	1	2023	2	2024
FLINT POM Automation Suite Rank Functionality	1	2023	1	2024
FLINT POM Automation Suite Value Modeling Functionality	1	2023	1	2024
FLINT Continous Artificial Intelligence Enhancement Development	2	2024	4	2027
FLINT Empowered Valuation Criteria	3	2023	4	2025
Live Virtual and Constructive (LVC) Training Development				
LVC Program Management and Coordination	1	2023	4	2023
LVC Scenario Development	1	2023	4	2023
I-Warrior Integration	1	2023	4	2023
Virtual Wizard Release	1	2023	4	2023
NGEN Architecture Design and Testing				
INOCCS Testing	1	2023	2	2029
Transport, Compute, & Storage Pilot Testing	1	2023	3	2029
Develop Future State Architecture	1	2023	4	2029
Pilot testing "Last Mile" connection issues	2	2023	4	2025
Pilot testing "Fix My Computer" legacy systems	3	2023	4	2025
Automation assessments and pilot efforts to improve Business/Technical processes	3	2023	4	2025
Pilots on identity with Naval Identity Services (NIS)	1	2023	4	2025
Jupiter data automation and sharing pilots across services, applications	1	2024	4	2026
Maturing automation pilots into AI/ML pilots to streamline tasks, activities	1	2024	4	2026
Pilot efforts on accessing IL6 data on IL5 with proper zero trust security	1	2024	4	2026

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy											Date: March 2024	
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605013N / *Information Technology Development*				Project (Number/Name) 2903 / *NAVAIR IT*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
2903: *NAVAIR IT*	75.213	11.385	13.979	16.580	-	16.580	16.700	18.025	18.859	19.666	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Navy Cybersecurity - Cyber Warfare consists of many different aspects to include sabotage of our weapon systems, networks as well as enablement of missions. Nation and non-nation state actors are acquiring and employing more advanced cyber-attacks in order to exploit our networks and aviation systems challenging our technological edge. The threats and capabilities are real and range from exploiting capabilities, overloading weapons systems and logistics supply chains, to jamming signals or taking control of weapons systems. We must defend against adversarial cyber attacks while contributing to the exploitation of cyber warfare capabilities.

To meet these challenges and address the Chief of Naval Operations priorities and tasking, these R&D efforts are specifically focused on Naval Air Systems Command weapon or control systems and programs to ensure warfighting effectiveness as part of integrated / multi-platform kill chains. These research and development efforts will strengthen our cyber posture by developing research, development, test and evaluation capabilities and solutions to deter, detect, and mitigate cyber threats and safeguard classified naval aviation systems and platforms from "cradle to grave." These solutions will be integrated into the acquisition of weapons systems to enhance security, increase lethality, and improve resiliency in the expected operational environments. Our weapon or control systems are unique in the aforementioned environments and mission, but also in the presence of numerous non-traditional access points and trusted cyber relationships required for operational environments.

Further, this line sustains Naval Aviation's Red Team capability to research, identify and validate nation-state exploitable cyber susceptibilities and vulnerabilities in both deployed and next-generation warfighting platforms. Through it, these efforts improve Naval Aviation's mission survivability by developing and demonstrating operational TTPs within the cyber contested environment. The team partners with Naval Aviation programs to certify theorized cyber weaknesses and thus to prevent denial, degradation or disruption of safety, readiness, and mission. The Red Team's assessment products support CYBERSAFE certification of platforms and systems, and likewise supports PMAs and OPNAV with validated threat data prioritizing systems security engineering (SSE) investments. The team leverages national-level cyber warfare experts, all-source intelligence, and technology research to assess NAE operational technology, fleet exercises, support equipment, enterprise logistics systems, and supply chain.

Digital Thread (DT) - Funding provides a Naval Enterprise Solution to manage technical data required for weapons systems to promote workforce automation, resource optimization, and process standardization for program lifecycle management and to integrate acquisition with the warfighter. This will support future state for Logistics IT and enhancing Readiness in providing an enterprise solution with Naval Product Lifecycle Management (N-PLM). N-PLM is integral to Digital Log IT, supporting the Naval Maintenance, Repair, and Overhaul (N-MRO), Naval Supply Chain Management (N-SCM). Digital Thread (DT) is the capability providing digital process integration with complete, secure and authoritative data, coordinated as part of approved Navy LOG-IT. DT integrates the product life cycle to provide universal access to authoritative data and workflow automation, enabling configuration management of data, implementation of closed loop quality, and consolidation of engineering products including digital enablement of additive manufacturing. Connecting these processes using standardized digital tools and data accelerates the product development cycle and lowers costs for support and new capability integration. The Digital Thread capability includes development and demonstration of cyber security

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

architectures for sustainment information systems, and development of a digital/additive manufacturing data architecture and repository. DT capability will benefit the speed to the Fleet with reduction of active legacy systems that stakeholders (PMAs, Squadrons, Depots, OEM, and Shipyards) are accessing for authoritative data.

Digital Production Floor (DPF) - Initiative modernizes Navy Aviation Depots by removing paper from the Production floor and integrating key Quality elements to support a true digital North Star ensuring viability and alignment with broader Naval Logistics IT (LOG-IT) enterprise initiatives to realize a fully unified digital sustainment capability. This capability aligns and leverages ongoing Digital Thread /Aviation Product Lifecycle Management (AvPLM) efforts to transform our existing way of doing business and align us with commercial best practices for digitization of business processes. Current paper based processes have demonstrated inefficiencies and administrative delays in performance, degraded quality of product, and increased Depot level repair turnaround times.

Radio Frequency Identification (RFID) - Digital tracking infrastructure enabling enhanced inventory and asset tracking capability with real-time or near real time visibility of fixed and rolling assets for accountability. Signed DD200s document lost tagged assets, therefore, each of these assets are large enough to be tagged. This capability will reduce the amount of DD200s by approximately 95%. By digitizing this capability, labor man-hours spent manually performing inventory tasking requirements will be reduced by ~33% overall. This initiative will provide the necessary foundational infrastructure and enable expansion to other use cases such as tool control, parts tracking, and HAZMAT tracking. Moving from manual, labor-intensive (~30 man-years) inventory method for fixed and rolling assets to an automatic digital method will provide real-time or near real time visibility into asset location throughout the facility, alerts when assets that are taken out of a geo-fenced location, and the ability to perform frequent inventory inspections; therefore, providing enhanced asset management. This will be accomplished by the implementation of compatible and integrated solutions via a blended technology approach (i.e. RFID, GPS, etc.) that is in direct support of the objective to realize a full Digital Production Floor at the Aviation Depots.

Additive Manufacturing (AM) - Provides for the development of the Additive Manufacturing/3D Printing Process, Material Verification and Qualification to support deployment of Additive Manufacturing capability to Fleet Depot and Level II Maintenance level facilities, as well as provides for the Qualification, Validation, Testing and incorporation of private industry Additive Manufacturing initiatives across the Naval Aviation Enterprise to include NAVSUP and DLA. Additionally Additive Manufacturing funds Cooperative Research and Development Activities (CRADAs) support with Industry Partners and next generation AM studies. This effort will fund the development, test and approval of additional Polymer Material Data Curves, Polymer material certification for aviation applications and System Documentation/ Training updates of additional high strength Polymers for use on deployed Additive Manufacturing systems. This will support deployed systems in producing Critical parts for Aircraft, Support Equipment and Aircraft Launch and Recovery Equipment, while enhancing Naval Aviation Readiness and Lethality allowing point of need part manufacturing to mitigate supply support shortfall, dramatically decreasing Mean Logistics Delay Times (MLDT) and increasing aircraft availability.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Navy Cybersecurity	6.070	5.457	9.136	0.000	9.136
Articles:	-	-	-	-	-
FY 2024 Plans: - Continue to develop, maintain, and execute the Naval Aviation Red Team. Continue to host the laboratories and foundational capabilities necessary to conduct adversarial cyber threat emulation and other hands-on					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
cyber warfare assessments of NAE operational technology, support equipment, processes, and information technology. - Continue augmentation and maturation of laboratory capabilities, environments and customized toolsets across multiple NAVAIR sites and facilities to conduct cyber security Research, Development, Test and Evaluation (RDT&E) for NAVAIR programs. - Continue development aviation weapon systems customized tools, methodologies, and procedures identified from Cyber Risk Assessments, Cyber Table Tops, test and evaluation capability gaps and emergent threats. Increased program and Fleet support capability for penetration testing, hands on adversarial assessments, and engineering investigations. - Continue support of emergent Fleet Cyber Command/10th Fleet (FLTCYBERCOM/C10F) Operations Orders (OPORD) and Tasking Orders (TASKORD) requiring urgent development of cyber incidence planning and response capability and customized weapon and control systems solutions for identified Fleet risks. - Continue to increase capability investment directly supports NAE Cyber Red Team capabilities, emergent intelligence, performance of FLTCYBERCOM/C10F OPORDs/TASKORDs, Blackbeard After Action Report (AAR), Cyber Risk Assessments of Aviation Weapons Systems and Platforms, Cyber Planning & Response Center, Aviation Resiliency, incident response investigations, Cyber Supply Chain risk management (SCRM) and hardening, and OSD Defense Science Board Task Force for Cyber Deterrence recommendations. Without this capability investment, the US Navy will continue to be especially vulnerable to attacks on its nontraditional systems (e.g., Aircraft, Weapons, Support Equipment).					
FY 2025 Base Plans: - Continue to develop, maintain, and execute the Naval Aviation Red Team. Continue to host the laboratories and foundational capabilities necessary to conduct adversarial cyber threat emulation and other hands-on cyber warfare assessments of NAE operational technology, support equipment, processes, and information technology. - Continue augmentation and maturation of laboratory capabilities, environments and customized toolsets across multiple NAVAIR sites and facilities to conduct cyber security Research, Development, Test and Evaluation (RDT&E) for NAVAIR programs. - Continue development aviation weapon systems customized tools, methodologies, and procedures identified from Cyber Risk Assessments, Cyber Table Tops, test and evaluation capability gaps and emergent threats. Increased program and Fleet support capability for penetration testing, hands on adversarial assessments, and engineering investigations.					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
- Continue support of emergent Fleet Cyber Command/10th Fleet (FLTCYBERCOM/C10F) Operations Orders (OPORD) and Tasking Orders (TASKORD) requiring urgent development of cyber incidence planning and response capability and customized weapon and control systems solutions for identified Fleet risks. - Continue to increase capability investment directly supports NAE Cyber Red Team capabilities, emergent intelligence, performance of FLTCYBERCOM/C10F OPORDs/TASKORDs, Blackbeard After Action Report (AAR), Cyber Risk Assessments of Aviation Weapons Systems and Platforms, Cyber Planning & Response Center, Aviation Resiliency, incident response investigations, Cyber Supply Chain risk management (SCRM) and hardening, and OSD Defense Science Board Task Force for Cyber Deterrence recommendations. Without this capability investment, the US Navy will continue to be especially vulnerable to attacks on its nontraditional systems (e.g., Aircraft, Weapons, Support Equipment). - Begin development of the Cyber Planning and Response Center (CPRC) to develop critical aviation capability and toolsets to assure coordinated and effective response in the event of a cyber-incident and ensures appropriate critical support to programs identifying incidents, response, and remediation to assure resiliency in a cyber-contested environment. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 increase ($3.679M) is due to initial funding for the Cyber Planning and Response Cell (CPRC).					
Title: Digital Thread	4.015	3.067	2.705	0.000	2.705
Articles:	-	-	-	-	-
FY 2024 Plans: Continue expanding DT-IDRN capabilities to support product development to expand additive manufacturing capabilities to increase the breadth and complexity of parts that can be manufactured by the Fleet. Implement additional processes and workflows to include digital engineering data, integrated quality management, and digital manufacturing connectivity. Continue development and implementation of digital workflows to accelerate processes and integration of IDRN requirements into AvPLM to manage digital technical data for key platforms. Continue to create additional networked capability to extend information across digital platforms. Continue to expand and extend capability for DT to allow for Additive Manufacturing (AM) Integration for cybersecurity capacity expansion to meet fleet requirements. ***FY 2025 Base Plans:***					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Continue expanding DT-IDRN capabilities to support product development to expand additive manufacturing capabilities to increase the breadth and complexity of parts that can be manufactured by the Fleet. Continue to implement additional processes and workflows to include digital engineering data, integrated quality management, and digital manufacturing connectivity. Continue development and implementation of digital workflows to accelerate processes and integration of IDRN requirements into AvPLM to manage digital technical data for key platforms. Continue to create additional networked capability to extend information across digital platforms. Continue to expand and extend capability for DT to allow for Additive Manufacturing (AM) Integration for cybersecurity capacity expansion to meet fleet requirements. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 decrease ($0.362M) due to gaining efficiencies with shared resources and combining software license purchases.					
Title: Digital Production Floor	1.300	1.705	1.903	0.000	1.903
Articles:	-	-	-	-	-
FY 2024 Plans: Continue development, configuration, and implementation of digital workflows to standardize and accelerate processes and manage digital data. Initiate effort for digital work package traceability for shop floor efficiency to advance and transform from paper to a unified digital sustainment capability. Develop acquisition strategy that facilitates the creation and implementation of an infrastructure that will provide secure network capabilities to extend and synchronize information across digital platforms while transforming the existing way of doing business from paper to align with digital business best practices. ***FY 2025 Base Plans:*** Continue development, configuration, and implementation of digital workflows to standardize and accelerate processes and manage digital data. Continue to initiate effort for digital work package traceability for shop floor efficiency to advance and transform from paper to a unified digital sustainment capability. Continue to develop acquisition strategy that facilitates the creation and implementation of an infrastructure that will provide secure network capabilities to extend and synchronize information across digital platforms while transforming the existing way of doing business from paper to align with digital business best practices. ***FY 2025 OCO Plans:***					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 increase ($0.198M) supports Naval Logistics IT (LOG-IT) enterprise initiatives to realize a fully unified digital sustainment capability.					
Title: Additive Manufacturing (AM)	0.000	3.300	2.388	0.000	2.388
Articles:	-	-	-	-	-
FY 2024 Plans: Develop and implement expanded material capability for deployed Tier 1 (desktop 3D polymer printers) and Tier 2 (industrial 3D polymer printers) printers. Evaluate software for component selection, component design, and modeling and simulation. Initiate printer networking across relevant operational networks.					
FY 2025 Base Plans: Continue development and implementation of expanded material capability for deployed Tier 1 (desktop 3D polymer printers) and Tier 2 (industrial 3D polymer printers) printers. Evaluate software for component selection, component design, and modeling and simulation. Complete printer networking across relevant operational networks.					
FY 2025 OCO Plans: N/A					
FY 2024 to FY 2025 Increase/Decrease Statement: FY25 decrease ($0.912M) due to Learning Curve efficiencies and reuse of new material introduction processes.					
Title: Radio Freq ID (RFID) Technology	0.000	0.450	0.448	0.000	0.448
Articles:	-	-	-	-	-
FY 2024 Plans: Begin implementation of a digital tracking solution for asset management targeting an aircraft hangar and a major back-shop/component building at each brick and mortar Site (FRC-E, FRC-SE, FRC-SW). This solution will consist of multiple compatible and integrated technologies (i.e. RFID, GPS, IoT, etc.) that will lay the foundation for enhanced inventory and asset tracking capability as well as expanded use cases (i.e. tool management, parts tracking, HAZMAT tracking etc.). Additionally, funding will be utilized for the development (if					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
not already configurable) for a middleware software that can integrate with Government system such as Maximo. Lastly, funds to also be utilized for any required ruggedize protective covering for hardware. ***FY 2025 Base Plans:*** Continue implementation of a digital tracking solution for asset management targeting an aircraft hangar and a major back shop/component building at each brick and mortar Site (FRC-E, FRC-SE, FRC-SW). This solution will consist of multiple compatible and integrated technologies (i.e. RFID, GPS, IoT, etc.) that will lay the foundation for enhanced inventory and asset tracking capability as well as expanded use cases (i.e. tool management, parts tracking, HAZMAT tracking etc.). Additionally, funding will be utilized for the development (if not already configurable) for a middleware software that can integrate with Government system such as Maximo. Purchase as needed ruggedize protective covering for hardware. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** No significant change from FY24.					
Accomplishments/Planned Programs Subtotals	11.385	13.979	16.580	0.000	16.580

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• OPN/4268/DPF: *Digital Production Floor*	3.274	3.850	1.347	-	1.347	1.029	0.931	0.954	0.976	0.000	12.361
• APN/0715/AM: *Additive Manufacturing*	1.500	1.500	0.500	-	0.500	0.000	0.000	0.000	0.000	0.000	26.844
• APN/0705/AM: *Additive Manufacturing*	1.801	0.911	0.889	-	0.889	0.000	0.000	0.000	0.000	0.000	15.910

Remarks

D. Acquisition Strategy

Navy Cybersecurity - The Navy Cybersecurity strategy is executed in the following three concurrent steps:

1. Cyber Red Teaming of Naval Aviation

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

Cyber Red Teaming of naval aviation systems will be completed across the acquisition lifecycle to include systems deployed in their operational environments. Focus areas will include but are not limited to:
1) Onboard/supporting embedded systems
2) Onboard/supporting RF apertures
3) RDT&E environments
4) Software support activities
5) Supply chain
6) Support and maintenance equipment
7) Enterprise network security
8) Logistics systems
9) Physical security

2. Cyber Incident Response, Defensive Cyber Engineering
Achieve capability to respond to cyber incidents and detect adversary intrusions. Activities will include:
1) Management of NAVAIRSYSCOM Cyber Planning and Response Center (CPRC)
2) Development and deployment of adversary threat hunting tools and TTPs that support NAE operational technology
3) Advanced digital forensics capabilities
4) Microelectronics Reverse Engineering
5) Enabling the conduct of Proactive-Defensive Cyber Operations (PDCO) missions for NAE operational technology
6) Development of general cyber warfare defensive technologies focused on protecting NAE warfighting systems

3. Key Cyber Laboratories and CSRA Performance
Maintain the baseline capabilities to support NAE platforms in achieving cyber survivability, as well as to support the continued development and maturation of Cyber Survivability Risk Assessments. This will include some focus on maintaining capabilities in NAVAIR facilities such as:
1) Cyber Warfare Innovation Lab (CWIL)
2) Aviation Cyber Forensics Laboratory (ACFL)
3) Cyber Planning & Response Center (CPRC)
4) Naval Aviation Red Team facilities

Digital Thread - Digital Thread/Cyber Security Architecture and Strategy
The management approach includes the Logistics IT Portfolio Management Office residing in NAVAIR as part of Program Executive Office for Aviation Common Systems and Commercial Services.
1) Develop cyber security architecture standards for Naval Aviation Environment (NAE) Digital Thread.
2) Develop IT and data architecture for NAE Digital Thread to accelerate maintenance and sustainment and support digital manufacturing capabilities including design, manufacturing, and materials data.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

3) Implement cyber security architecture for NAE Digital Thread including COMFRC, Logistics IT, PMAs.
4) Implement Phase 1 of NAE Digital Thread Integrated Digital Resource Network (DT-IDRN) at D-level locations.
5) Stand up developmental digital manufacturing data repository that includes digital design and digital material database.
6) Integrate digital manufacturing data repository into DT-IDRN.

Digital Production Floor Strategy

The management approach includes the Logistics IT Portfolio Management Office residing in NAVAIR as part of Program Executive Office for Aviation Common Systems and Commercial Services.

1) Develop IT and data architecture for DPF to digitize, optimize and standardize Depot maintenance processes
2) Develop and execute acquisition strategy for required infrastructure and software development/configuration
3) Develop and execute Hardware Acquisition strategy for end user aligned to LD implementation targets
4) Implement IT and data architecture for DPF
5) Complete accreditation, interface development, test plan and prototype of DPF
6) Implement Phase 1 (Limited Deployments) of DPF at primary D-level locations
7) Implement Phase I (Limited Deployments) of DPF at all D-level locations
8) Continue Limited Deployments, in a Continuous Improvement Capability Delivery (CICD) methodology

Hardware and software development services will be awarded using competitively awarded contracts with appropriate out-year options. Service contracts will contain a matrix of tasks and required levels of performance. Follow on contracts will also follow the same competitive system. The Services provided under the contract support acquisitions will not encompass tasks inherently Governmental in nature and the Statements of Work will include a matrix that establishes the minimum acceptable performance standards.

Radio Frequency Identification (RFID) Strategy

The management approach includes the Logistics IT Portfolio Management Office residing in NAVAIR as part of Program Executive Office for Aviation Common Systems and Commercial Services.

Radio Frequency Identification (RFID) - Development services will be awarded using a competitively awarded contract that will contain a matrix of tasks and required levels of performance. Follow on contracts will also follow the same competitive system. The Services provided under the contract support acquisitions will not encompass tasks inherently Governmental in nature and the Statements of Work will include a matrix that establishes the minimum acceptable performance standards.

Additive Manufacturing (AM) Strategy

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

The management approach includes the systems engineering oversight of capability and integration efforts.

1. Develop data and specifications for capability expansion
-Partner with industry through Cooperative Research and Development Activities (CRADAs) for standard and component development
-Partner with Military institutes
-Leverage public private institutes
-Leverage Naval Air Warfare Center (NAWC) laboratory personnel and facilities
- Contracted testing Tier 1 (desktop 3D polymer printer) ESD material evaluation
- Contracted material testing Tier 2 (industrial 3D polymer printers)
- Contracted automated Technical Data Package development leveraging Naval Air Warfare Center Aircraft Division (NAWCAD) internal resources
-Leverage cross military working groups for candidate evaluation software
2. Develop and implement network connectivity
-Leverage NAWCAD Lakehurst personnel and expertise
-Test & Evaluation of connectivity in phases on appropriate networks
-Development of Additive Manufacturing metrics dashboard
-Test & Evaluation of Tier 1 and Tier 2 connectivity on Research, Development, Test and Evaluation (RDT&E) network
3. Develop requirements and evaluate systems for technical refresh
-Stakeholder input across Naval Aviation Enterprise (NAE)
-Analysis of Alternatives (AoA) conducted to determine state of the art
-Acquire and Evaluate Tier 1 system
-Evaluate system Tier 2
-Acquire and Evaluate design software Tier 1 and Tier 2

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Solutions for Cyber Warfare Capabilities for Navy Cybersecurity	Various	Various : Various	17.212	1.959	Oct 2022	1.909	Oct 2023	2.000	Oct 2024	-		2.000	Continuing	Continuing	Continuing
Solutions for Digital Thread	Various	Various : Various	25.144	3.077	Oct 2022	2.258	Oct 2023	2.047	Oct 2024	-		2.047	Continuing	Continuing	Continuing
Solutions for Digital Production Floor	C/CPFF	KBR : Patuxent River, MD	0.000	1.261	Feb 2023	0.850	Jan 2024	1.382	Feb 2025	-		1.382	Continuing	Continuing	Continuing
Solutions for Radio Frequency Identification (RFID)	Various	Various : Various	0.000	0.000		0.405	Mar 2024	0.405	Mar 2025	-		0.405	Continuing	Continuing	Continuing
Solutions for Additive Manufacturing Network Connectivity Development	WR	NAWCAD : Lakehurst, NJ	0.000	0.000		0.701	Oct 2023	0.661	Oct 2024	-		0.661	Continuing	Continuing	Continuing
Solutions for Additive Manufacturing Capability Expansion	Various	TBD : TBD	0.000	0.000		0.450	Jun 2024	0.447	Jun 2025	-		0.447	Continuing	Continuing	Continuing
		Subtotal	42.356	6.297		6.573		6.942		-		6.942	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Prior year Prod Def no longer funded in the FYDP	Various	Various : Various	4.379	0.000		0.000		0.000		-		0.000	0.000	4.379	-
		Subtotal	4.379	0.000		0.000		0.000		-		0.000	0.000	4.379	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	WR	NAWCAD/AM : Patuxent River, MD	0.000	0.000		0.750	Oct 2023	0.423	Oct 2024	-		0.423	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Operational Test & Evaluation (OT&E)	WR	NAWCAD/AM : Patuxent River, MD	0.000	0.000		0.474	Oct 2023	0.211	Oct 2024	-		0.211	Continuing	Continuing	Continuing
Operational Test & Evaluation (OT&E)	Various	TBD/AM : TBD	0.000	0.000		0.575	Jun 2024	0.289	Jun 2025	-		0.289	Continuing	Continuing	Continuing
		Subtotal	0.000	0.000		1.799		0.923		-		0.923	Continuing	Continuing	N/A

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Prior year Prod Def no longer funded in the FYDP	WR	NAWCAD : Patuxent River, MD	1.756	0.000		0.000		0.000		-		0.000	0.000	1.756	-
Systems Engineering Support for Navy Cybersecurity	WR	NAWCAD : Patuxent River, MD	16.735	4.061	Oct 2022	3.498	Oct 2023	7.086	Oct 2024	-		7.086	Continuing	Continuing	Continuing
Systems Engineering Support for Digital Thread	WR	NAWCAD : Patuxent River, MD	7.512	0.938	Oct 2022	0.809	Oct 2023	0.658	Oct 2024	-		0.658	Continuing	Continuing	Continuing
Systems Engineering Support for Navy Cybersecurity	WR	NAWCWD : China Lake, CA	2.475	0.050	Oct 2022	0.050	Oct 2023	0.050	Oct 2024	-		0.050	Continuing	Continuing	Continuing
Systems Engineering Support for Digital Production Floor	C/FFP	NSI : Patuxent River, MD	0.000	0.039	Oct 2022	0.855	Oct 2023	0.521	Oct 2024	-		0.521	Continuing	Continuing	Continuing
Systems Engineering Support for Radio Frequency Identification (RFID)	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.045	Oct 2023	0.043	Oct 2024	-		0.043	Continuing	Continuing	Continuing
Systems Engineering Support for Additive Manufacturing	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.350	Oct 2023	0.357	Oct 2024	-		0.357	Continuing	Continuing	Continuing
		Subtotal	28.478	5.088		5.607		8.715		-		8.715	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605013N / *Information Technology Development*	Project (Number/Name) 2903 / *NAVAIR IT*	

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	75.213	11.385		13.979		16.580		-		16.580	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

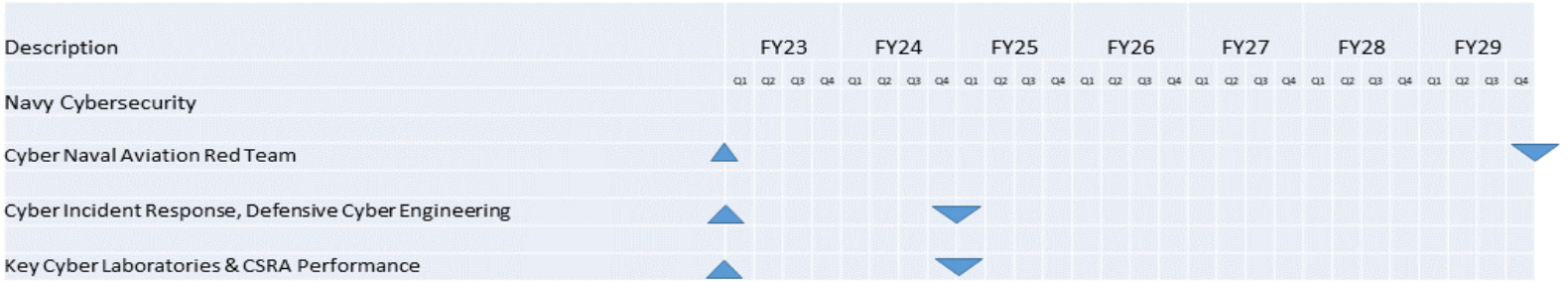


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

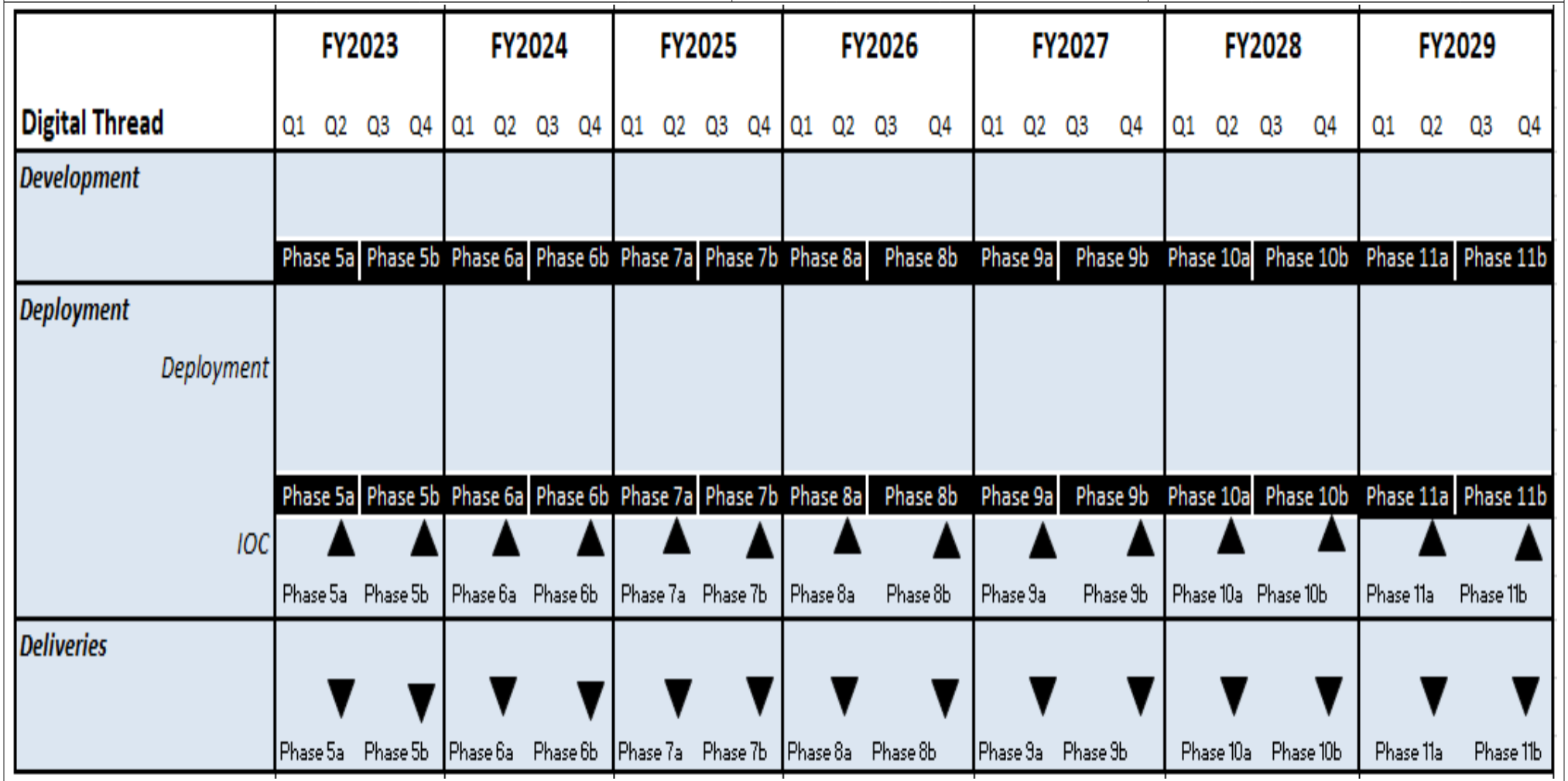


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

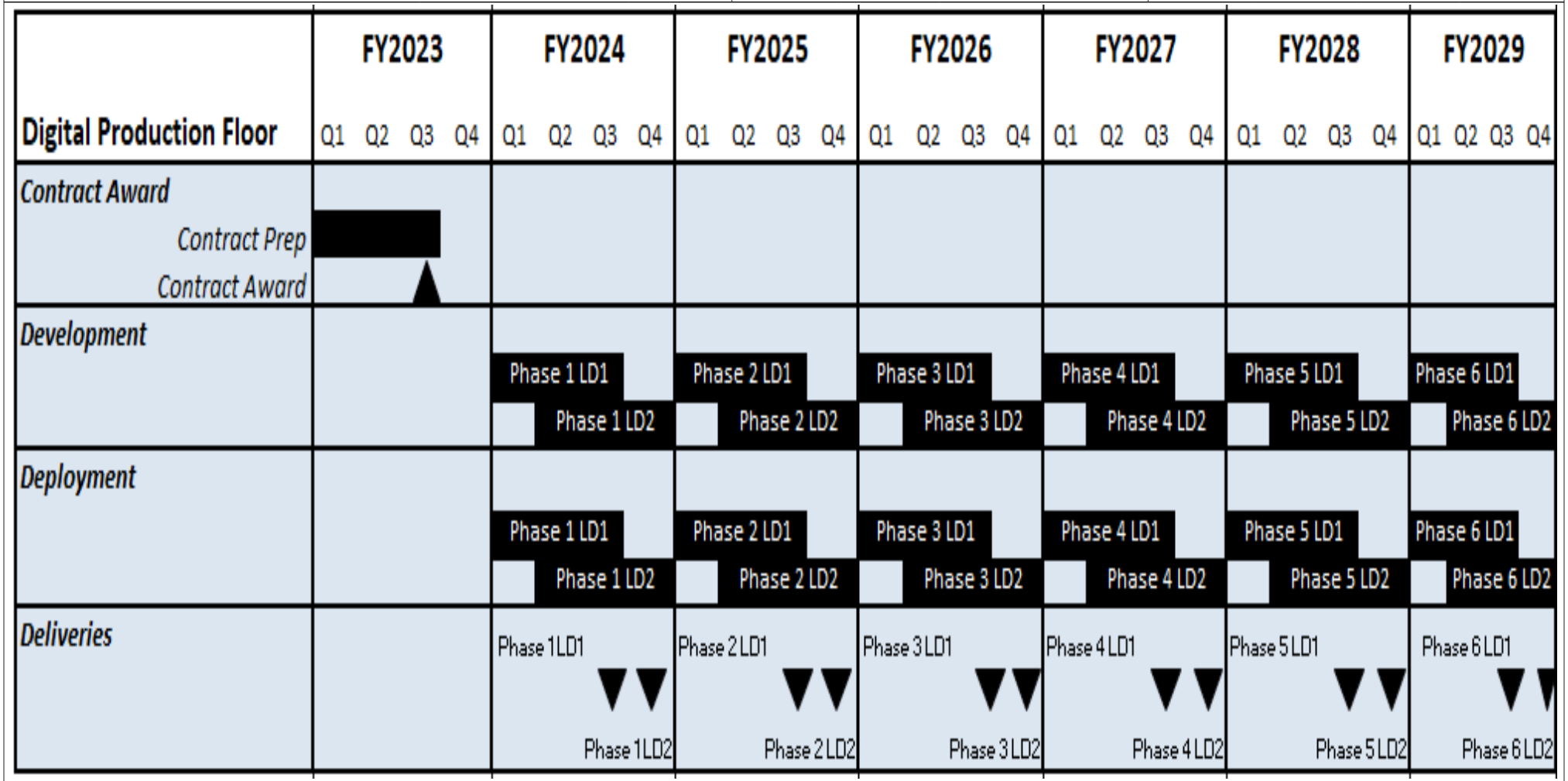


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

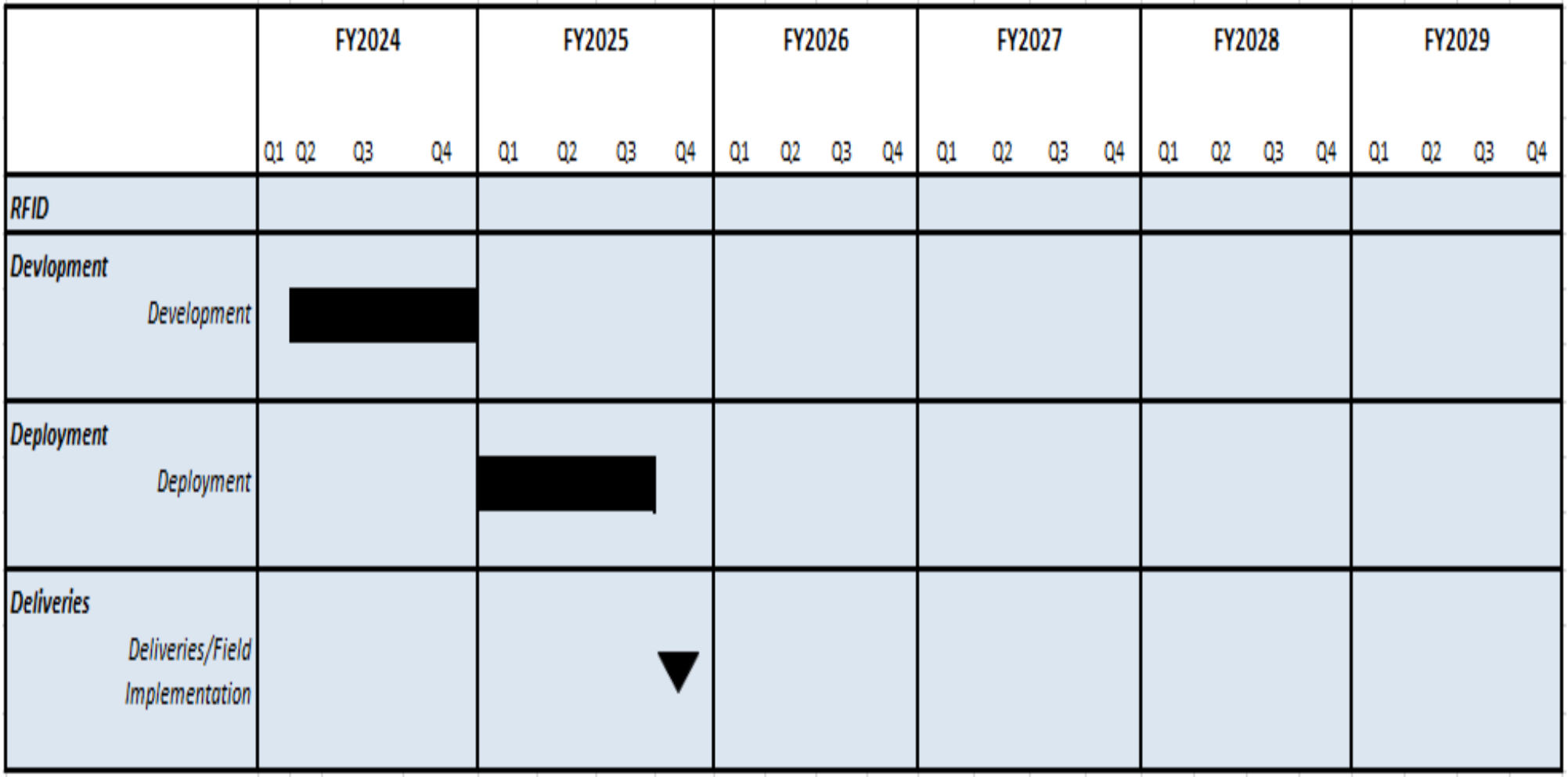


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

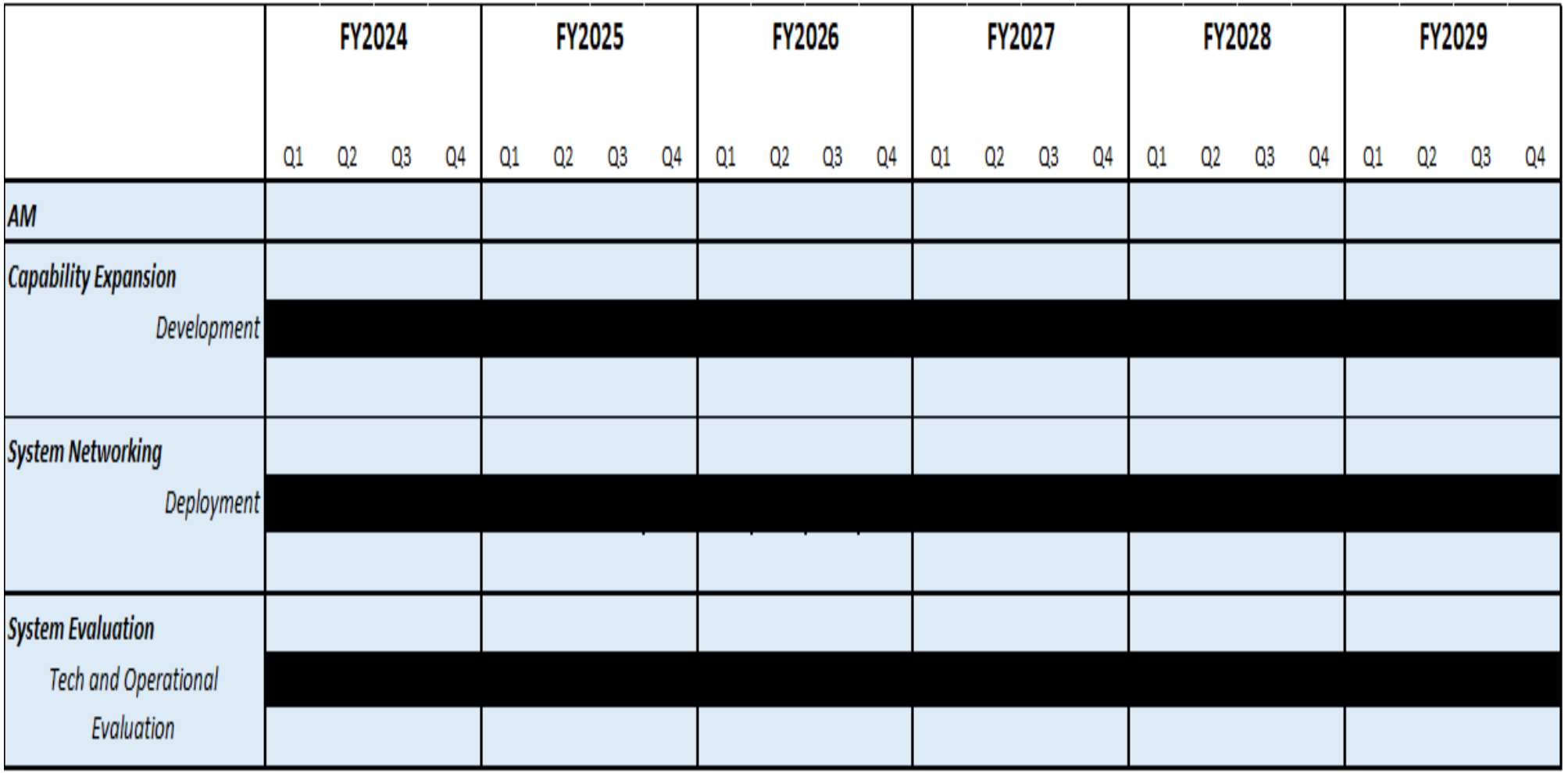


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Navy Cybersecurity				
Advanced Cyber Labs: Support Organic/BAA industry solutions: Key Cyber Laboratories & CSRA Performance	1	2023	4	2024
Advanced Cyber Labs: Support Organic/BAA industry solutions: Cyber Incident Response, Defensive Cyber Engineering	1	2023	4	2024
Advanced Cyber Labs: Support Organic/BAA industry solutions: Cyber Naval Aviation Red Team	1	2023	4	2029
Digital Thread				
Development: Digital Thread Development: Digital Thread Capability Development Updates (Phase 5a)	1	2023	2	2023
Development: Digital Thread Development: Digital Thread Capability Development Updates (Phase 5b)	3	2023	4	2023
Development: Digital Thread Development: Digital Thread Capability Development Updates (Phase 6a)	1	2024	2	2024
Development: Digital Thread Development: Digital Thread Capability Development Updates (Phase 6b)	3	2024	4	2024
Development: Digital Thread Development: Digital Thread Capability Development Updates (Phase 7a)	1	2025	2	2025
Development: Digital Thread Development: Digital Thread Capability Development Updates (Phase 7b)	3	2025	4	2025
Development: Digital Thread Development: Digital Thread Capability Development Updates (Phase 8a)	1	2026	2	2026
Development: Digital Thread Development: Digital Thread Capability Development Updates (Phase 8b)	3	2026	4	2026

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Development: Digital Thread Development: Digital Thread Capability Development Updates (Phase 9a)	1	2027	2	2027
Development: Digital Thread Development: Digital Thread Capability Development Updates (Phase 9b)	3	2027	4	2027
Development: Digital Thread Development: Digital Thread Capability Development Updates (Phase 10a)	1	2028	2	2028
Development: Digital Thread Development: Digital Thread Capability Development Updates (Phase 10b)	3	2028	4	2028
Development: Digital Thread Development: Digital Thread Capability Development Updates (Phase 11a)	1	2029	2	2029
Development: Digital Thread Development: Digital Thread Capability Development Updates (Phase 11b)	3	2029	4	2029
Deployment: Digital Thread Deployment: Digital Thread Deployment New/Updates (Phase 5a)	1	2023	2	2023
Deployment: Digital Thread Deployment: Digital Thread Deployment New/Updates (Phase 5b)	3	2023	4	2023
Deployment: Digital Thread Deployment: Digital Thread Deployment New/Updates (Phase 6a)	1	2024	2	2024
Deployment: Digital Thread Deployment: Digital Thread Deployment New/Updates (Phase 6b)	3	2024	4	2024
Deployment: Digital Thread Deployment: Digital Thread Deployment New/Updates (Phase 7a)	1	2025	2	2025
Deployment: Digital Thread Deployment: Digital Thread Deployment New/Updates (Phase 7b)	3	2025	4	2025
Deployment: Digital Thread Deployment: Digital Thread Deployment New/Updates (Phase 8a)	1	2026	2	2026
Deployment: Digital Thread Deployment: Digital Thread Deployment New/Updates (Phase 8b)	3	2026	4	2026

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Deployment: Digital Thread Deployment: Digital Thread Deployment New/Updates (Phase 9a)	1	2027	2	2027
Deployment: Digital Thread Deployment: Digital Thread Deployment New/Updates (Phase 9b)	3	2027	4	2027
Deployment: Digital Thread Deployment: Digital Thread Deployment New/Updates (Phase 10a)	1	2028	2	2028
Deployment: Digital Thread Deployment: Digital Thread Deployment New/Updates (Phase 10b)	3	2028	4	2028
Deployment: Digital Thread Deployment: Digital Thread Deployment New/Updates (Phase 11a)	1	2029	2	2029
Deployment: Digital Thread Deployment: Digital Thread Deployment New/Updates (Phase 11b)	3	2029	4	2029
Deployment: Digital Thread Deployment: Digital Thread Phase 5a IOC	2	2023	2	2023
Deployment: Digital Thread Deployment: Digital Thread Phase 5b IOC	4	2023	4	2023
Deployment: Digital Thread Deployment: Digital Thread Phase 6a IOC	2	2024	2	2024
Deployment: Digital Thread Deployment: Digital Thread Phase 6b IOC	4	2024	4	2024
Deployment: Digital Thread Deployment: Digital Thread Phase 7a IOC	2	2025	2	2025
Deployment: Digital Thread Deployment: Digital Thread Phase 7b IOC	4	2025	4	2025
Deployment: Digital Thread Deployment: Digital Thread Phase 8a IOC	2	2026	2	2026
Deployment: Digital Thread Deployment: Digital Thread Phase 8b IOC	4	2026	4	2026
Deployment: Digital Thread Deployment: Digital Thread Phase 9a IOC	2	2027	2	2027
Deployment: Digital Thread Deployment: Digital Thread Phase 9b IOC	4	2027	4	2027
Deployment: Digital Thread Deployment: Digital Thread Phase 10a IOC	2	2028	2	2028
Deployment: Digital Thread Deployment: Digital Thread Phase 10b IOC	4	2028	4	2028
Deployment: Digital Thread Deployment: Digital Thread Phase 11a IOC	2	2029	2	2029
Deployment: Digital Thread Deployment: Digital Thread Phase 11b IOC	4	2029	4	2029
Deliveries: Digital Thread New/Updates (Phase 5a)	2	2023	2	2023

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Deliveries: Digital Thread New/Updates (Phase 5b)	4	2023	4	2023
Deliveries: Digital Thread New/Updates (Phase 6a)	2	2024	2	2024
Deliveries: Digital Thread New/Updates (Phase 6b)	4	2024	4	2024
Deliveries: Digital Thread New/Updates (Phase 7a)	2	2025	2	2025
Deliveries: Digital Thread New/Updates (Phase 7b)	4	2025	4	2025
Deliveries: Digital Thread New/Updates (Phase 8a)	2	2026	2	2026
Deliveries: Digital Thread New/Updates (Phase 8b)	4	2026	4	2026
Deliveries: Digital Thread New/Updates (Phase 9a)	2	2027	2	2027
Deliveries: Digital Thread New/Updates (Phase 9b)	4	2027	4	2027
Deliveries: Digital Thread New/Updates (Phase 10a)	2	2028	2	2028
Deliveries: Digital Thread New/Updates (Phase 10b)	4	2028	4	2028
Deliveries: Digital Thread New/Updates (Phase 11a)	2	2029	2	2029
Deliveries: Digital Thread New/Updates (Phase 11b)	4	2029	4	2029
Digital Production Floor				
Contract Award: Contract Award Prep	1	2023	3	2023
Contract Award: Contract Award	3	2023	3	2023
Development: Development Digtial Production Floor: Digital Production Floor Phase 1 LD1	1	2024	3	2024
Development: Development Digtial Production Floor: Digital Production Floor Phase 1 LD2	2	2024	4	2024
Development: Development Digtial Production Floor: Digital Production Floor Phase 2 LD1	1	2025	3	2025
Development: Development Digtial Production Floor: Digital Production Floor Phase 2 LD2	2	2025	4	2025
Development: Development Digtial Production Floor: Digital Production Floor Phase 3 LD1	1	2026	3	2026

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Development: Development Digtial Production Floor: Digital Production Floor Phase 3 LD2	2	2026	4	2026
Development: Development Digtial Production Floor: Digital Production Floor Phase 4 LD1	1	2027	3	2027
Development: Development Digtial Production Floor: Digital Production Floor Phase 4 LD2	2	2027	4	2027
Development: Development Digtial Production Floor: Digital Production Floor Phase 5 LD1	1	2028	3	2028
Development: Development Digtial Production Floor: Digital Production Floor Phase 5 LD2	2	2028	4	2028
Development: Development Digtial Production Floor: Digital Production Floor Phase 6 LD1	1	2029	3	2029
Development: Development Digtial Production Floor: Digital Production Floor Phase 6 LD2	2	2029	4	2029
Deployment: Deployment Digtial Production Floor: Digital Production Floor Phase 1 LD1	1	2024	3	2024
Deployment: Deployment Digtial Production Floor: Digital Production Floor Phase 1 LD2	2	2024	4	2024
Deployment: Deployment Digtial Production Floor: Digital Production Floor Phase 2 LD1	1	2025	3	2025
Deployment: Deployment Digtial Production Floor: Digital Production Floor Phase 2 LD2	2	2025	4	2025
Deployment: Deployment Digtial Production Floor: Digital Production Floor Phase 3 LD1	1	2026	3	2026
Deployment: Deployment Digtial Production Floor: Digital Production Floor Phase 3 LD2	2	2026	4	2026
Deployment: Deployment Digtial Production Floor: Digital Production Floor Phase 4 LD1	1	2027	3	2027

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Deployment: Deployment Digtial Production Floor: Digital Production Floor Phase 4 LD2	2	2027	4	2027
Deployment: Deployment Digtial Production Floor: Digital Production Floor Phase 5 LD1	1	2028	3	2028
Deployment: Deployment Digtial Production Floor: Digital Production Floor Phase 5 LD2	2	2028	4	2028
Deployment: Deployment Digtial Production Floor: Digital Production Floor Phase 6 LD1	1	2029	2	2029
Deployment: Deployment Digtial Production Floor: Digital Production Floor Phase 6 LD2	2	2029	4	2029
Deliveries: Deliveries Digtial Production Floor: Digital Production Floor Phase 1 LD1	3	2024	3	2024
Deliveries: Deliveries Digtial Production Floor: Digital Production Floor Phase 1 LD2	4	2024	4	2024
Deliveries: Deliveries Digtial Production Floor: Digital Production Floor Phase 2 LD1	3	2025	3	2025
Deliveries: Deliveries Digtial Production Floor: Digital Production Floor Phase 2 LD2	4	2025	4	2025
Deliveries: Deliveries Digtial Production Floor: Digital Production Floor Phase 3 LD1	3	2026	3	2026
Deliveries: Deliveries Digtial Production Floor: Digital Production Floor Phase 3 LD2	4	2026	4	2026
Deliveries: Deliveries Digtial Production Floor: Digital Production Floor Phase 4 LD1	3	2027	3	2027
Deliveries: Deliveries Digtial Production Floor: Digital Production Floor Phase 4 LD2	4	2027	4	2027
Deliveries: Deliveries Digtial Production Floor: Digital Production Floor Phase 5 LD1	3	2028	3	2028
Deliveries: Deliveries Digtial Production Floor: Digital Production Floor Phase 5 LD2	4	2028	4	2028
Deliveries: Deliveries Digtial Production Floor: Digital Production Floor Phase 6 LD1	3	2029	3	2029
Deliveries: Deliveries Digtial Production Floor: Digital Production Floor Phase 6 LD2	4	2029	4	2029
Radio Freq ID (RFID) Technologies				
RFID Development: Development: Development - General Equipment Radio Freq ID (RFID) Technologies	2	2024	4	2024
RFID Deployment: Deployment: Deployment - General Equipment Radio Freq ID (RFID) Technologies	1	2025	3	2025

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2903 / *NAVAIR IT*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
RFID Deliveries: Deliveries: Deliveries - General Equipment Radio Freq ID (RFID) Technologies	4	2025	4	2025
Additive Manufacturing (AM)				
Capabilty Expansion: Development: Development	1	2024	4	2029
System Evaluation: Technical and Operational Evaluation: Technical and Operational Evaluation	1	2024	4	2029
System Networking: Deployment: Deployment	1	2024	4	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy											Date: March 2024	
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605013N / *Information Technology Development*				Project (Number/Name) 2904 / *NAVSEA IT*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
2904: *NAVSEA IT*	321.971	16.339	19.431	21.171	-	21.171	20.411	20.113	20.515	20.946	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Navy Maritime Maintenance Enterprise Solution (NMMES) is the Information Technology (IT) toolset currently utilized to execute ship and submarine maintenance in the Naval Shipyards (NSY), Regional Maintenance Centers (RMC), Ship Repair Facility (SRF), Intermediate Maintenance Facilities (IMF), Forward Deployed Regional Maintenance Center, and commercial industrial sites worldwide. These maintenance activities support Fleet operations 24 hours per day, 7 days per week. The NMMES IT solution is used by over 40,000 civilians and military who conduct over $8.9B of ship, aircraft carrier, and submarine maintenance and modernization on an annual basis.

The NMMES program includes sustainment as well as multiple modernization efforts to insure the continued effectiveness of the Fleet maintenance IT toolset. These efforts consist of adding mandatory enhancements, such as Financial Improvement and Audit Readiness (FIAR) changes and aligning with the Standard Accounting Budget Reporting System (SABRS) system. The NMMES program provides for software changes, retiring and/or replacing of costly legacy applications, transition planning, and systems engineering for integration with existing and future solutions. These efforts align with direction to insure that proposed interim solutions support and facilitate the transition to the planned maintenance solution end state. This program will provide modernization, migration, testing, and consolidation of obsolete IT tools and code base to the next generation of centrally hosted tools supporting Fleet Maintenance systems for the Navy. Funding for NMMES PU 2904 addresses critical deficiencies and minimizes the inherent risks that a catastrophic failure would be to fleet readiness. The funds are required to support the modernization of products that are on outdated software, align maintenance applications and processes with evolving shipbuilding techniques, and enhance the existing applications to make them cloud capable. It also provides for software enhancements required to make applications Financial Improvement and Audit Readiness (FIAR) compliant and to enable system modifications of financial feeder applications to interface with a FIAR compliant system of record. The requirement to handle 3-D integrated product models being delivered with CVN-78, Virginia Class and Columbia Class are also driving the requirement. NAVSEA plans to execute these funds primarily through a current sustainment contract and several separate contracts through existing delivery orders to gain the specialized resources and material necessary to sustain these vital functions.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**
Title: Project Sequencing & Scheduling (PSS) Upgrade	2.506	1.165	1.020	0.000	1.020
Articles:	-	-	-	-	-
Description: The PSS scheduling application provides the naval shipyards (Portsmouth Naval Shipyard, Puget Sound Naval Shipyard & IMF, Pearl Harbor Naval Shipyard & IMF, and Norfolk Naval Shipyard) with a customized, flexible scheduling tool for Chief of Naval Operations maintenance availabilities and other maintenance, repair and overhaul work assigned to the activities in support of the first phase of the Optimized					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Fleet Response Plan. Key system objectives include: 1) Standardization of the scheduling processes and tools; 2) Creation of dates for use in the NMMES project management software; 3) Generation of user and management reports covering all aspects of scheduling of a ship or submarine availability. The PSS application was based on a proprietary commercial product originally acquired over 25 years ago and was nearing end of life. Additionally, PSS had already become increasingly difficult to maintain and with the pending loss of vendor support could lead to catastrophic system failure and loss of ability to maintain project schedules. The Navy began to pursue an immediate upgrade via the OTA process to procure a supportable product, called Concerto, to overcome the shortcomings of PSS while not interrupting maintenance availabilities. Concerto is a web-based cloud capable COTS product that provides a solution for performing scheduling activities for the maintenance community. With enhanced graphical and reporting capabilities for all activities to view, Concerto can also provide critical chain and critical path scheduling ability to the Navy Ship Maintenance Community. ***FY 2024 Plans:*** Continue to make software improvements and some enhancements of the Concerto application. Begin configuration for maintenance support functions not currently included in the critical chain scheduling functions across shipyard availabilities. Complete the design and software modifications necessary to implement CCPM. Determine implementation roadmap and begin deploying to activities. Identify scheduling and sequencing requirements for lifting and handling to conduct analysis to identify configuration and integration tasks into single NSY scheduling tool. Perform research and road-mapping for the cloud migration prototype for moving Concerto to NMMES Cloud Hosting Environment (CHE). ***FY 2025 Base Plans:*** Continue work with new scheduling product vendor to configure product enhancements based on data analysis and continuous improvement process requirements and Fleet recommendations. Begin configuration by lifting and handling sequencing requirements. Continue with cloud migration activities and fully deploy to the NMMES CHE. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:***					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
FY25 decrease ($0.145M) based critical chain/critical path configuration efforts slowly ramping down/completed and continued analysis occurs in a sustainment environment.					
Title: electronic Technical Work Document (eTWD)	0.451	0.500	0.500	0.000	0.500
Articles:	-	-	-	-	-
Description: The eTWD Initiative is a NAVSEA Sponsored, CNO approved Reduction in Total Ownership Cost (RTOC) Initiative to establish interactive electronic Technical Work Document (eTWD) capability for use in the naval shipyards. An eTWD will be used to execute maintenance, repair, overhaul and modernization work packages on ships and submarines undergoing major availabilities in naval shipyards. This solution will provide paperless work packages, pulling authoritative data from the existing NMMES applications supporting ship maintenance. The interactive electronic work instruction will be used at the jobsite replacing the current paper based instructions. The overall goal for eTWD is twofold: 1) to reduce the resources and time preparing, executing and certifying work instructions; and 2) enable the non-stop execution of work by having online documents and drawings accessible for problem resolution. The eTWD Initiative is in progress.					
FY 2024 Plans: The Phase 1 eTWD MVP system roll-out is scheduled to conduct and complete Government Acceptance Testing event followed by a Production Readiness Review. Phase 1 eTWD MVP consists of rolling out a web-based word processor capability that eliminates the dependency on Microsoft Word. Follow-on phases of the eTWD solution will include full paperless and tablet based documentation; step tracking and real-time certification and progressing.					
FY 2025 Base Plans: The follow-on modules will be initiated based on the success during government testing and evaluation. The functionality will include interfaces with the systems of record that are utilized for work brokering and the development and implementation of class maintenance plans. This will then lead to the ability to compare work plans against the varied configurations across ship/sub classes in future years. The existing functionality will move into the NMMES sustainment operational baseline.					
FY 2025 OCO Plans: N/A					
FY 2024 to FY 2025 Increase/Decrease Statement:					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
No change in funding.					
Title: Planned Maintenance System (PMS) Upgrade	1.986	0.586	0.000	0.000	0.000
Articles:	-	-	-	-	-
Description: The Planned Maintenance System Management Information System (PMS MIS) is an upgraded web-based solution that tracks the status of all Maintenance Index Pages (MIPs) and Maintenance Requirements Cards (MRCs). This includes new and revised documentation allowing for Technical Feedback Report (TFBR) generation and tracking from initial reporting to problem resolution, management of activity documentation distribution information, document development history including Reliability-Centered Maintenance (RCM) information and other data needed to support all forms of planned maintenance in the Fleet. PMS MIS will interface with authoritative configuration and logistics management databases allowing for Equipment Maintenance Plans (EMPs) to reflect actual ship or unit configuration. These EMPs will be created by ashore maintenance managers eliminating tailoring by ships' force. The upgraded PMS Scheduler (PMS SKED) is designed to consume configuration specific O-Level Maintenance Plans and MRCs by afloat platforms to ease administrative burdens associated with Force Revision processing and equipment to PMS associations. The existing processes require excessive sailor and shore expert administrative burden creating complex and ambiguous documents and extensive time to implement changes. As a result, improper execution of equipment maintenance can occur. Additionally, leadership lacks the tools to monitor program implementation and assure satisfactory performance. Furthermore, the existing processes do not support distributed and optimally manned ship concepts of operation such as those now used by the Naval Expeditionary Combat Command and the Littoral Combat Ship. The future PMS upgrade will provide visibility to shore maintenance leaders ensuring equipment is consistently scheduled throughout the fleet and execution issues are identified. ***FY 2024 Plans:*** PMS SKED Instance IOC testing completed in FY23 with various shipboard pilots identified and underway. Migration of ashore users into PMS SKED Prime IOC has commenced. Upon successful completion of the pilots, the upgraded PMS SKED Instance will be delivered to the Navy production environment (targeting CANES) for afloat users. The spiral development philosophy will continue to be used to incorporate PMS MIS and PMS SKED IOC enhancements. The Ships' 3-M development efforts will begin in late FY23 and the complete end-to-end testing and deployment will conclude prior to the end of FY24. ***FY 2025 Base Plans:***					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Based on contract requirements in support of PMS SKED being delivered and testing efforts complete. PMS SKED will be in a sustainment state. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding decrease ($0.586M) based on contract requirements in support of PMS SKED being delivered and testing efforts complete. PMS SKED will be in a sustainment state.					
Title: Strategic Planning &Forecasting (SPF) Upgrade	0.300	1.788	1.788	0.000	1.788
Articles:	-	-	-	-	-
Description: SPF is part of a suite of tools in NMMES that are utilized to assist Navy industrial activities in resource planning and long term workload forecasting to meet CNO strategic maintenance requirements through the gathering and compiling of workforce data. Two additional applications; 1) Performance Measurement and Control (PMC) and Quality Performance System (QPS) are interfaced with SPF to produce the staffing, planning and performance measurement analysis necessary to successfully accomplish work in navy industrial activities. All three of these applications have known software deficiencies, which limit productivity and require cumbersome manual adjustments of key planning, availability progress, and workload leveling progress reports. This data is reported to the CNO on a weekly basis and is shared with others such as the Joint Chiefs and Congress when requested. Historically to effectively operate and meet mission needs, the naval shipyards and RMCs have supplemented this suite with additional local spreadsheet and databases, adding to the complexity of replacing this aging solution. One goal of the SPF Upgrade is to eliminate these ad hoc databases and unify the solution to effectively operate in the targeted navy data center environment and eventually the cloud. The SPF Upgrade is part of the Service Life Extension that will address the accumulation of significant problems with this application, update the software platform, provide integrated metrics capabilities across naval shipyards and include accessibility of data by planners at headquarters. The SPF Upgrade will modernize the database architecture to provide fully functioning data warehouse environment that will eliminate the weekend long running of PMC jobs that hinder efficiency and productivity. The upgrade will eliminate the currently required manual interfaces with other NMMES applications to produce a seamless real-time environment that can accommodate all project management metrics, as well as all ship maintenance related metrics. Additionally, it will eliminate the manual data gathering and consolidation efforts required to produce Shipyard Interim Metrics; and eliminate the need for NAVSEA headquarters and each shipyard to maintain their own unique respective standalone data					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
files. These efforts are in direct support of the CNO's Design for Maritime Superiority line of effort for the role of data in decision-making. ***FY 2024 Plans:*** Develop SPF prototype and perform initial user test and evaluation. Conduct sprints for full SPF capability and provide feedback to contractors. Begin initial roll-out of new SPF. Initiate requirements and use cases for QPS component. Continue development of PMC component as part of the Enterprise Data Analytics where PMC has been incorporated. ***FY 2025 Base Plans:*** Continue development and testing of the final version of SPF. Begin transitioning the product to sustainment. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** No change in funding.					
Title: Financial Technical Upgrade ***Articles:*** ***Description:*** NMMES has two primary applications that are financial feeders; 1) SYMIS Mission Funded COST (aka COST) which processes cost related data for mission funded activities with the Standard Accounting & Reporting System - Field Level (STARS-FL); and 2) the SYMIS Pre & Post Payroll Processes which manages the Time & Attendance data from NMMES to the Defense Civilian Payroll System (DCPS). These applications are targeted for modernization to address the FOUR mandatory requirements: 1) meeting FISCAM and auditability requirements; 2) transitioning COST to interface with SABRS, vice STARS-FL no later than 30 September 2019; 3) both these applications are COBOL-based. COST utilizes a 1990s era Case tool (PACBASE) to generate COBOL-ready code. In 2015, vendor support for the PACBASE tool was transitioned to an IBM subsidiary in France (who in 2016 informed the Navy that support for the tool would end by 2018), hence without this tool the COST application cannot be updated and therefore must be refreshed in order to operate; and 4) the rapid increase in the cost of gaining sufficient COBOL licenses to operate these two applications in support of fleet maintenance has also created emerging execution year budget challenges for the Navy to such an extent that it is now more feasible to transition these applications to a non-COBOL solution than to continue in	2.950 -	6.000 -	1.568 -	0.000 -	1.568 -

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
the current licensing structure. The Financial Technical Upgrade addresses these four urgent needs in order to continue operation of the NMMES system in support of ship and submarine maintenance operations. ***FY 2024 Plans:*** Deploy new NMMES financial solution to NSYs and RMC production environments and begin potential Navy ERP interface. Begin G invoicing as directed by the Department of Treasury. Deployment of select modules in the replatformed toolset. Conduct training and deployment. Begin planning and requirements identification for future potential Navy ERP interface. ***FY 2025 Base Plans:*** Continue deployment financial solution to shipyards and RMC production environments and begin potential Navy ERP interface while working through the design and integration of the G-invoicing requirement. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding decrease ($4.432M) due to the continuation of production effort moving into a sustainment effort at the NSYs and RMCs.					
Title: Material Management Upgrade	0.040	0.500	4.000	0.000	4.000
Articles:	-	-	-	-	-
Description: The Material Access Technology-Mission Funded (MATmf) application is used by all Naval Shipyards to manage and provide logistical support for services and materials manufactured, purchased and utilized in the overhaul, repair, and maintenance of ships and submarines. MATmf provides quantitative, financial, and status information on industrial materials. It monitors the shop stores in the shipyard and assesses the direct material inventories. MATmf has reached end-of-life and is operating on software components that are considered obsolete. A Service Life Extension is required to support the future capabilities (i.e. eTWD requirements), to correct sustainability issues, and to improve the ability to support current and future ships maintenance. While the upcoming MSE releases will consolidate application databases (including MATmf into a data center environment); it does not include material integration across shipyards nor provide usable real time material information or metrics across the ship maintenance community. The MSE releases will also not convert the outdated development code, eliminate the time cumbersome manual batch processing, nor fix a host of long term shortcomings affecting the efficiency of MATmf (including long time printing limitations affecting Material Control Tags and waterfront performance). Utilizing the findings from multiple LEAN events NAVSEA					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
08 and the Corporate Material Process Action Team have identified and documented many areas in MATmf that need enhancement to improve effectiveness. Some of these requirements include: 1) the ability to allow for Fiscal Year rollover of JMLs, 2) the ability to allow redistribution of bulk receipt inspected materials to other shipyards, 3) the ability to report transactions for BP28 assets, 4) improve the ability to create efficient processes for receipt of RFI tagged material into Shop Stores, 5) improve receipt of shipyard contracts into shipyard for receipt inspection, 6) allow DLR material in Shop Stores, 7) address transition to another handheld scanner as the current handhelds are no longer available for purchase. These deficiencies will be addressed in the Material Management Upgrade. ***FY 2024 Plans:*** Awaiting FY24 funds to begin development. Conduct prototype testing and analysis to determine the best solution to meet ship maintenance requirements. After down selection initiate software configuration efforts. Begin functional testing of the replacement solution. Conduct Integration testing to ensure the planned solution meets performance requirements of NMMES System and external material management systems of record. This is dependent on the continued DISA network circuit procurement, installation, and cybersecurity protections that will support the Depot Maintenance user community begin acceptance testing, training and deployment of SMMS. ***FY 2025 Base Plans:*** Additional development, integration, and user acceptance testing of SMMS to moving into government cloud environment, once approved by NAVSEA 08. Additional modules to incorporate functionality of more local material apps developed, acceptance tested by users, and FMA users trained, as necessary by corporate needs. Sustainment of current SMMS application. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 increase ($3.500M) supports additional development, integration, and user acceptance testing of SMMS to moving into government cloud environment.					
Title: NMMES -- Maritime Systems Environment (MSE) -- Database Optimization	4.161	2.356	2.489	0.000	2.489
Articles:	-	-	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Description: The NMMES system is presently undergoing modernization to address cyber security deficiencies, consolidate and align databases across multiple data instances, and to transition the solution into an approved Component Enterprise Data Center (CEDC). Once the transition from four geographically dispersed instances to the CEDC is complete and has reached stability MSE Database will be optimized to gain throughput efficiencies, capitalize on economies of scale, and rationalize data structures to streamline the use of authoritative data and to provide standardized access to data across the fleet maintenance enterprise. MSE is live at all RMCs and NSYs. ***FY 2024 Plans:*** In FY24, plan to continue analyzing MSE system data and component application database structures to discover opportunities for efficiency gains through the implementation of streamlined database designs which are key in supporting analytics and database decision making. Additionally, will roll-out Phase 1 of Business Intelligence and Business Warehouse solution. ***FY 2025 Base Plans:*** In FY25, plan to continue efforts by implementing MSE system wide data optimization and normalization to cohesively and seamlessly integrate multiple component databases using modern database schema designs and remove redundant application specific stored procedural codes embedded in databases. Goal is to eliminate duplication of stored data and unnecessary procedural programming code in databases to directly support mission critical data analytics and dramatically increase system efficiency and computational speed. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 increased ($0.133M) due expected licenses cost increasing due to optimizing databases.					
Title: SUPDESK - Timekeeping For All	1.038	2.006	2.497	0.000	2.497
Articles:	-	-	-	-	-
Description: The current timekeeping system (SUPDESK) at the shipyards allows managers to input time for their employees. This is considered a financial compliance issue and requires the system be adjusted to allow all shipyard workers to input and certify their individual time. Will also add the capability to track and certify overtime approvals. Supports efforts to close a financial audit finding by enabling time attestation for all employees. ***FY 2024 Plans:***					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Buildout infrastructure and continue to deploy timekeeping system, for all across the enterprise. ***FY 2025 Base Plans:*** Continue integration and complete training as necessary with the activities. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 increased ($0.491M) supports continuation of AIM integration and completes training as necessary with the activities.					
Title: MSE Waterfront Process Improvement	0.597	1.050	1.365	0.000	1.365
Articles:	-	-	-	-	-
Description: The Maritime Systems Environment (MSE) Waterfront Processes Improvement project is focusing on aligning the NMMES toolset to compliment waterfront industrial processes changes that were recommended based on the outcomes of multiple LEAN events. This is a multi-year initiative to not only address the backlog of LEAN recommendations in the ship maintenance community, but to also provide the impetus to accelerate the implementation of additional process improvements to gain further economies in the maintenance community. ***FY 2024 Plans:*** Conduct analysis on the LEAN findings and incorporate into enhancements on future releases in the consolidated baseline at CEDC Charleston. Increase customer engagement and continue process improvement initiatives. Align tools to include rationalization of functionality into a consolidated NMMES toolset. Finalize the process for the agile software development methodology, and deploy the solution for multiple projects. Complete installation of network improvements providing faster response of data for waterfront personnel in the ship maintenance community. ***FY 2025 Base Plans:*** Incorporate change requests for remaining items on LEAN backlog and updates into the existing systems. Conduct LEAN Rapid Improvement Event to capture new process improvement initiatives. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:***					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
FY25 increase ($0.315M) supports MSE WFI LEAN Rapid Improvement Event to capture new process improvement initiatives increase efforts.					
Title: Enterprise Data Analytics	1.150	0.600	1.790	0.000	1.790
Articles:	-	-	-	-	-
Description: Establish capability to fully utilize navy authoritative maintenance data to develop predictive analysis and gain efficiencies in ship availabilities to provide data driven decisions based on current information. ***FY 2024 Plans:*** Continue integration, configuration, and deployments of selected toolset(s) as functionality is delivered based on lessons learned, user community feedback, leadership direction, and data quality improvements. ***FY 2025 Base Plans:*** Finalize integrating data sets from depot and intermediate maintenance applications to improve data visualization and analysis across the maintenance enterprise. Conduct efforts to provide automatic retrieval of information from various corporate systems that are manually performed on a daily basis, thereby eliminating the manual and laborious burden, ensuring consistency of data retrieval, and maintaining the pedigree of data collection. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 increase ($1.190M) supports the community training required and maturity of the user community (train the trainer).					
Title: Product Data Management Integration	0.500	1.850	1.850	0.000	1.850
Articles:	-	-	-	-	-
Description: Modify the NMMES solution to be able to utilize the 3-D Product model information being delivered to the Navy by the shipbuilders for the Ford and Columbia Classes. Both the Ford Class Carrier and Columbia Class Submarine Programs are being designed, built and delivered utilizing 3-D integrated product models. Configuration and technical information will be provided to the government in electronic format rather than via paper-based drawings. The current suite of Shore Maintenance applications cannot accept the data delivered by either program, which will impact the ability of the shore Maintenance Community to maintain and modernize					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
these platforms. This is required to support the USS FORD Planned Incremental Availability (PIA) at Norfolk Naval Shipyard as well as future maintenance availabilities on both classes. ***FY 2024 Plans:*** Continue configuration, integration, and testing activities. Correct deficiencies identified during the testing processes. Initiate deployment in alignment with the rest of the NMMES modules as usable features become available. Expand deployment capability across the NAVSEA community from the initial localized deployment sites. ***FY 2025 Base Plans:*** Finalize data integration and manipulation standards, policies, and practices to support COLUMBIA Class, FORD Class, and VIRGINIA Block V. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** No change in funding.					
Title: Local Application Rationalization ***Articles:*** ***Description:*** Several local applications provide site-specific augmentation to the NMMES toolset due to the historically distributed environment. The project rationalizes application to provide standardized functionality across the shore maritime maintenance community in line with the centralized hosting. This requires reviewing local application functionality and to determine which application functionality should be migrated. ***FY 2024 Plans:*** Continue analysis of local applications for rationalization into MSE. Begin planning and design for the standardization, configuration/integration of specific functionality into the NMMES portfolio. Progress planning and design for the standardization, configuration/integration into NMMES portfolio. Configuration and integration to incorporate the required end-to-end functionality into the centrally hosted single instance of the NMMES system. ***FY 2025 Base Plans:***	0.660 -	1.030 -	1.348 -	0.000 -	1.348 -

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Consolidate required functionality of selected local naval shipyard applications that extend functionality beyond the aging shipyard IT systems. Continue to enhance the MSE suite of applications and implement local application functionality as older government made software is re-platformed or replaced with commercial off-the-shelf (COTS) software. Improve product support with consolidated functionality in fewer software applications. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 increase ($0.318M) supports Risk Management Framework cybersecurity assurances processes during the integration efforts.					
Title: Mobility Solutions ***Articles:*** ***Description:*** Establish a "go everywhere" capability for the NMMES system at the Regional Maintenance Centers and Naval Shipyards. Include the capability to retrieve authoritative information across multiple, secure devices, (i.e. tablets, digital readers, scanners, etc.) to continue to exploit a paperless arena. ***FY 2024 Plans:*** Expand to aircraft carriers, test requirements and develop processes to support remote support, primarily photo. Continue expanding application availability for mobile devices. ***FY 2025 Base Plans:*** Identify electronic controls required to secure information on mobile devices and define technical attributes to support the expansion to include wearable devices as well as expand to video and voice from inside ship hulls. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 increases ($0.956M) due to expanded application availability for mobile devices.	0.000 -	0.000 -	0.956 -	0.000 -	0.956 -
Accomplishments/Planned Programs Subtotals	16.339	19.431	21.171	0.000	21.171

C. Other Program Funding Summary ($ in Millions)

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

C. Other Program Funding Summary ($ in Millions)

Remarks

D. Acquisition Strategy

The backbone of the present solution is a set of dated information technology (IT) products that have exceeded or are approaching end-of-life and do not meet the increasingly digitized operating environment. In order to ensure that the IT toolset continued functioning as required the Fleet Maintenance Board of Directors approved the establishment of the NAVSEA PMO-IT to oversee the selected development and sustainment efforts of this solution; to acquire and manage the IT resources necessary to gain further efficiencies in the toolset; and to transition this solution to a more modern and efficient end state. Selected modernizations, utilizing Commercial Off The Shelf (COTS) are aligned with ongoing sustainment to provide an IT solution until a COTS based Technical Refresh of this solution can be completed and deployed. Existing IT contracts will be used for sustainment services along with Other Transaction Agreements (OTA) and existing delivery orders to support required services at the waterfront.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Development	C/CPFF	NAVSEA : WNY, D.C.	260.027	16.339	Oct 2022	19.431	Oct 2023	21.171	Oct 2024	-		21.171	Continuing	Continuing	Continuing
Software Development	WR	NSLC : Mechanicsburg, PA	15.999	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Advance Planning Analysis	WR	NAVWAR : Arlington, VA	7.471	0.000		0.000		0.000		-		0.000	0.000	7.471	-
Advance Planning Analysis	C/CPFF	NAVSEA : WNY, D.C.	33.474	0.000		0.000		0.000		-		0.000	0.000	33.474	-
Advance Planning Analysis	C/CPFF	NSWC PHD : Port Hueneme, CA	5.000	0.000		0.000		0.000		-		0.000	0.000	5.000	-
		Subtotal	321.971	16.339		19.431		21.171		-		21.171	Continuing	Continuing	N/A

Remarks

Program plans to execute all contract awards for software development of shipyard and national systems through the NAVSEA SEAPORT vehicle and other competitively awarded contracts.

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	321.971	16.339		19.431		21.171		-		21.171	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

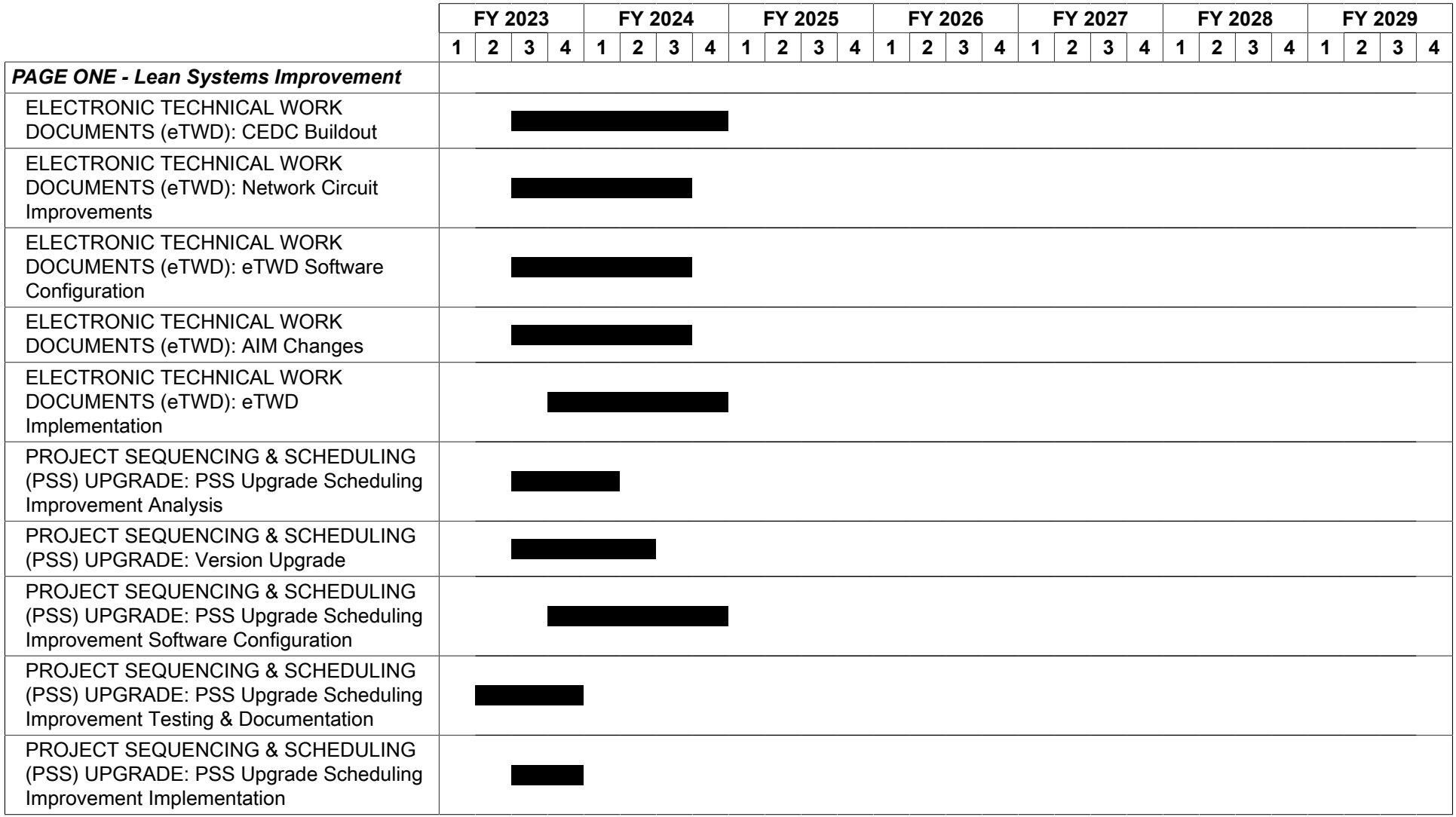


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

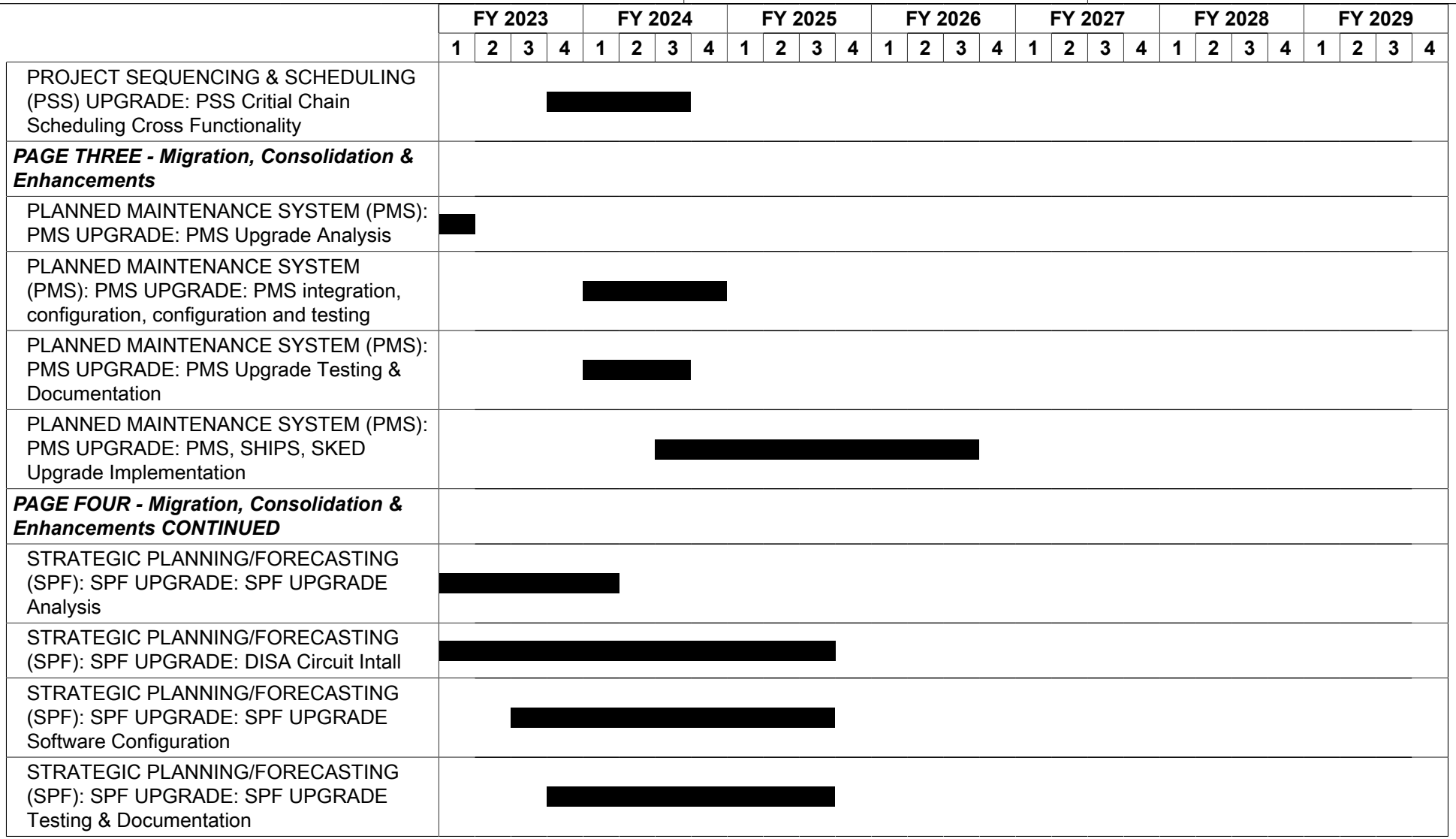


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

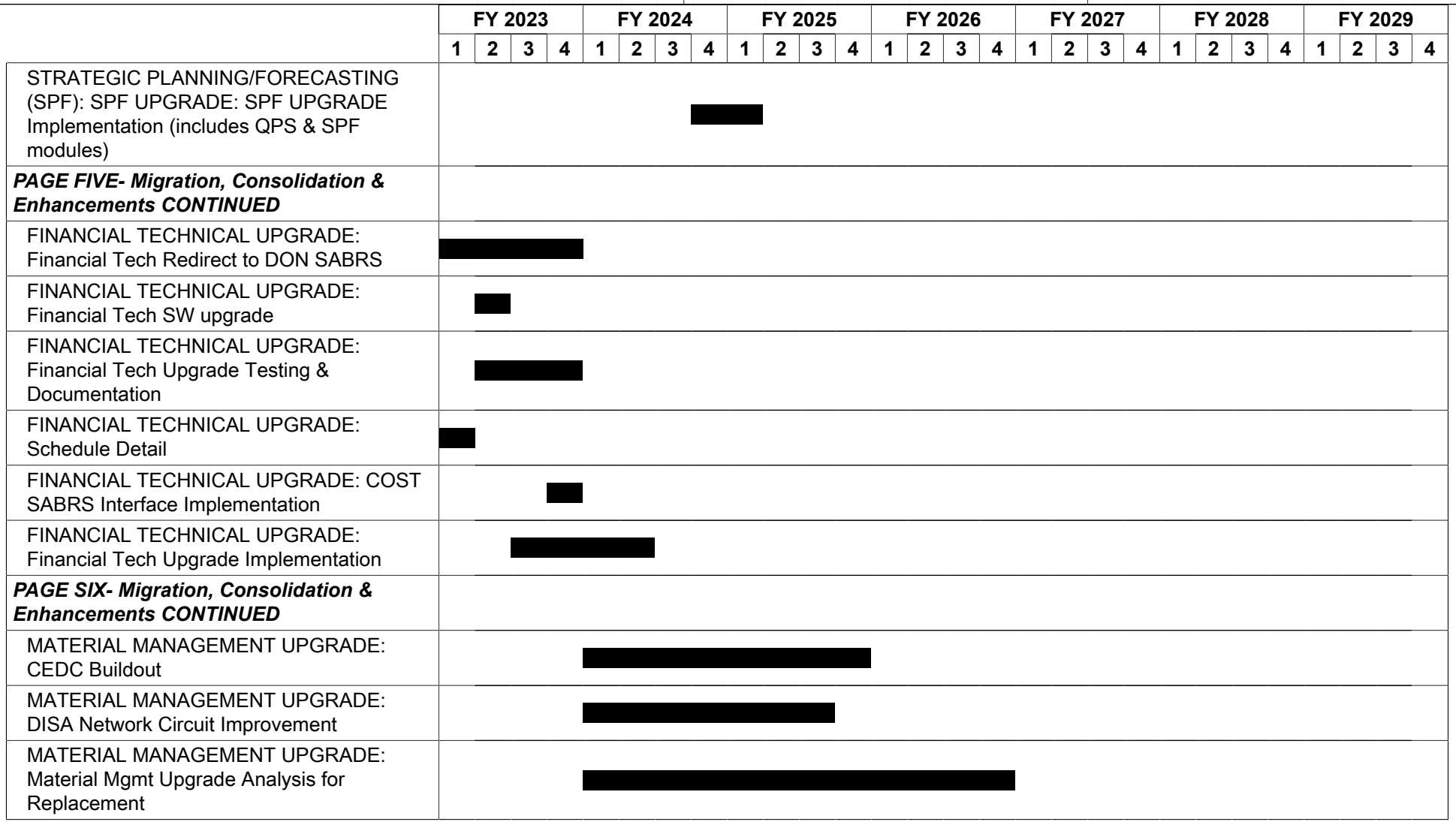


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

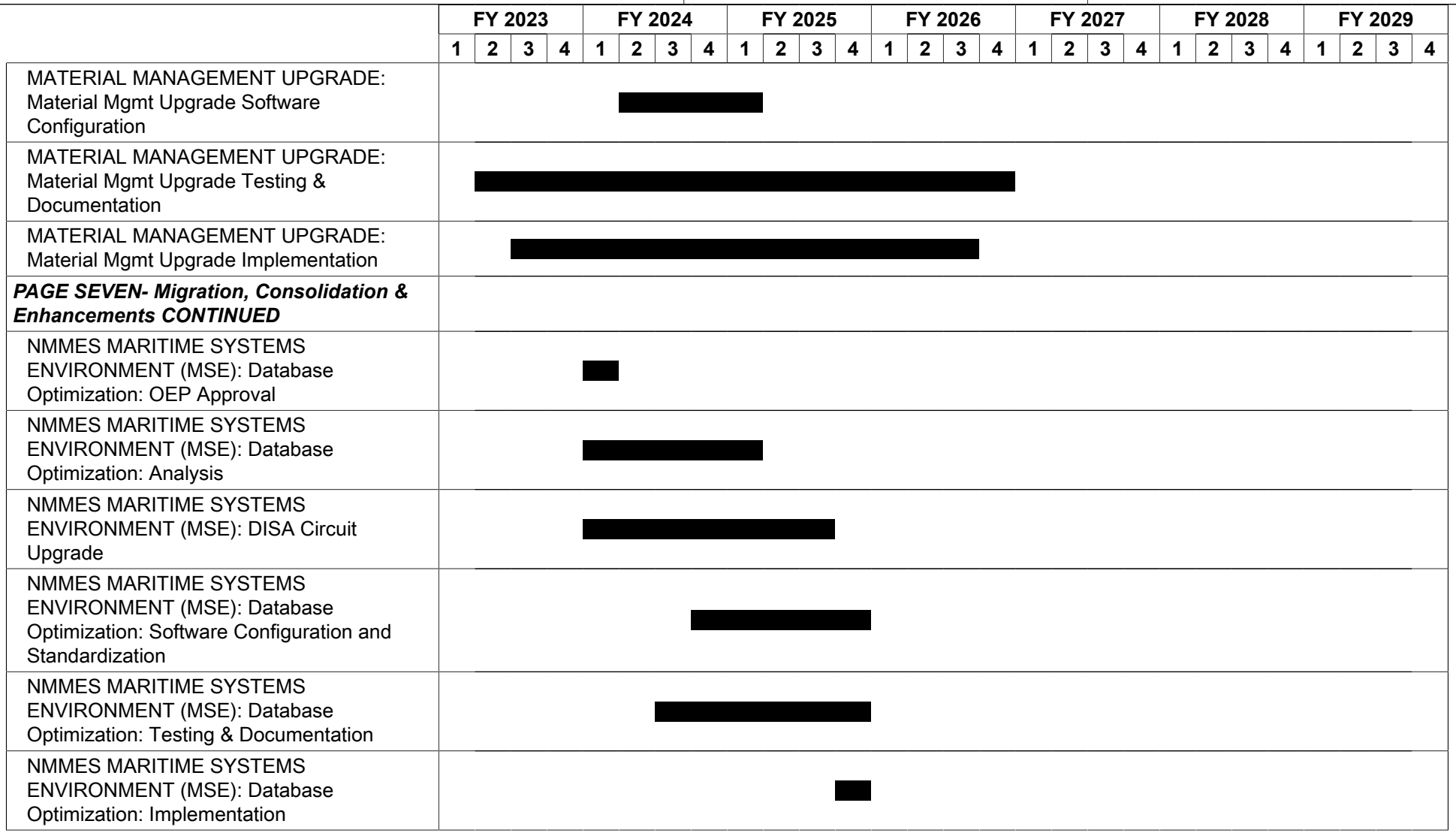


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

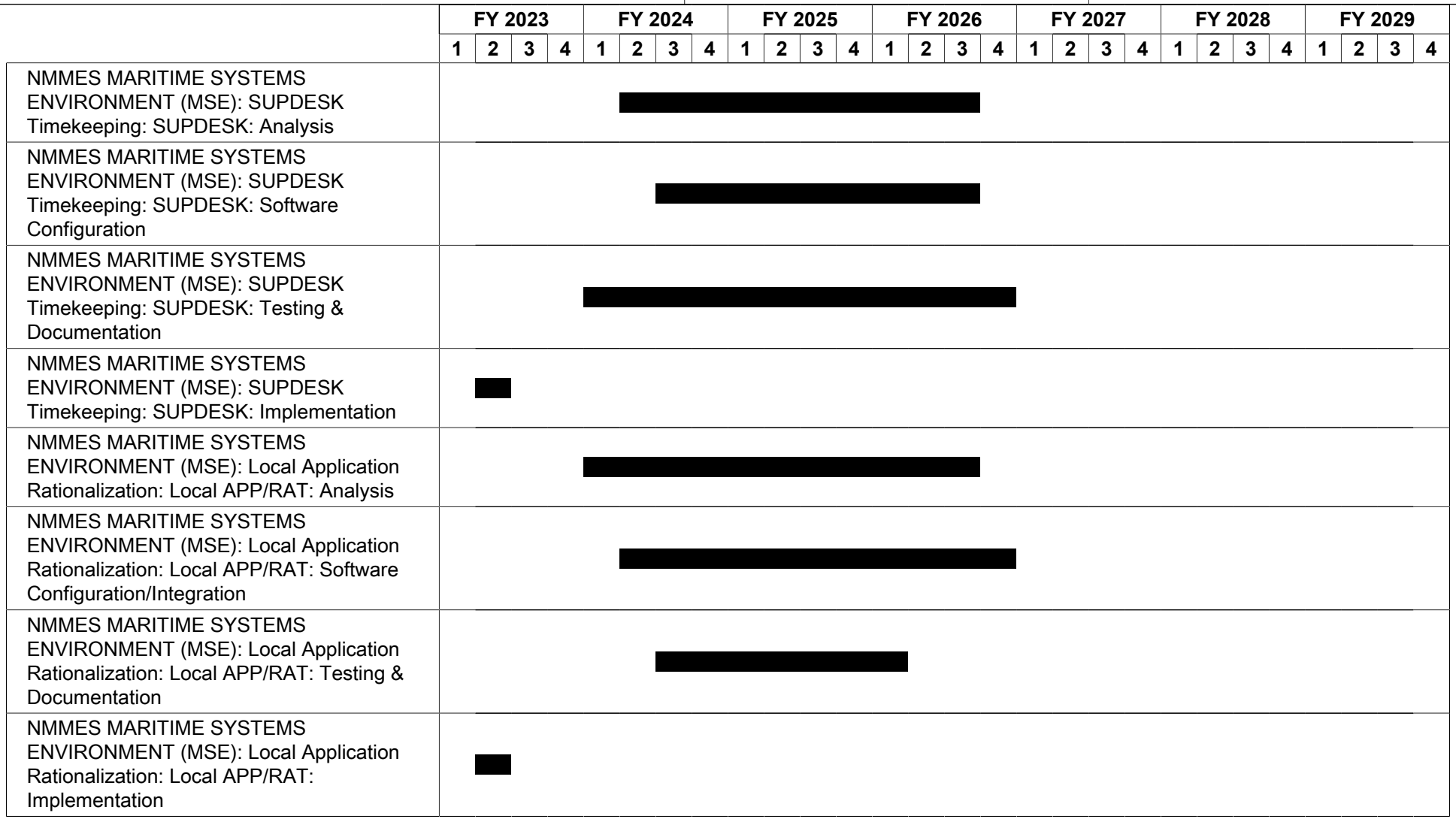


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

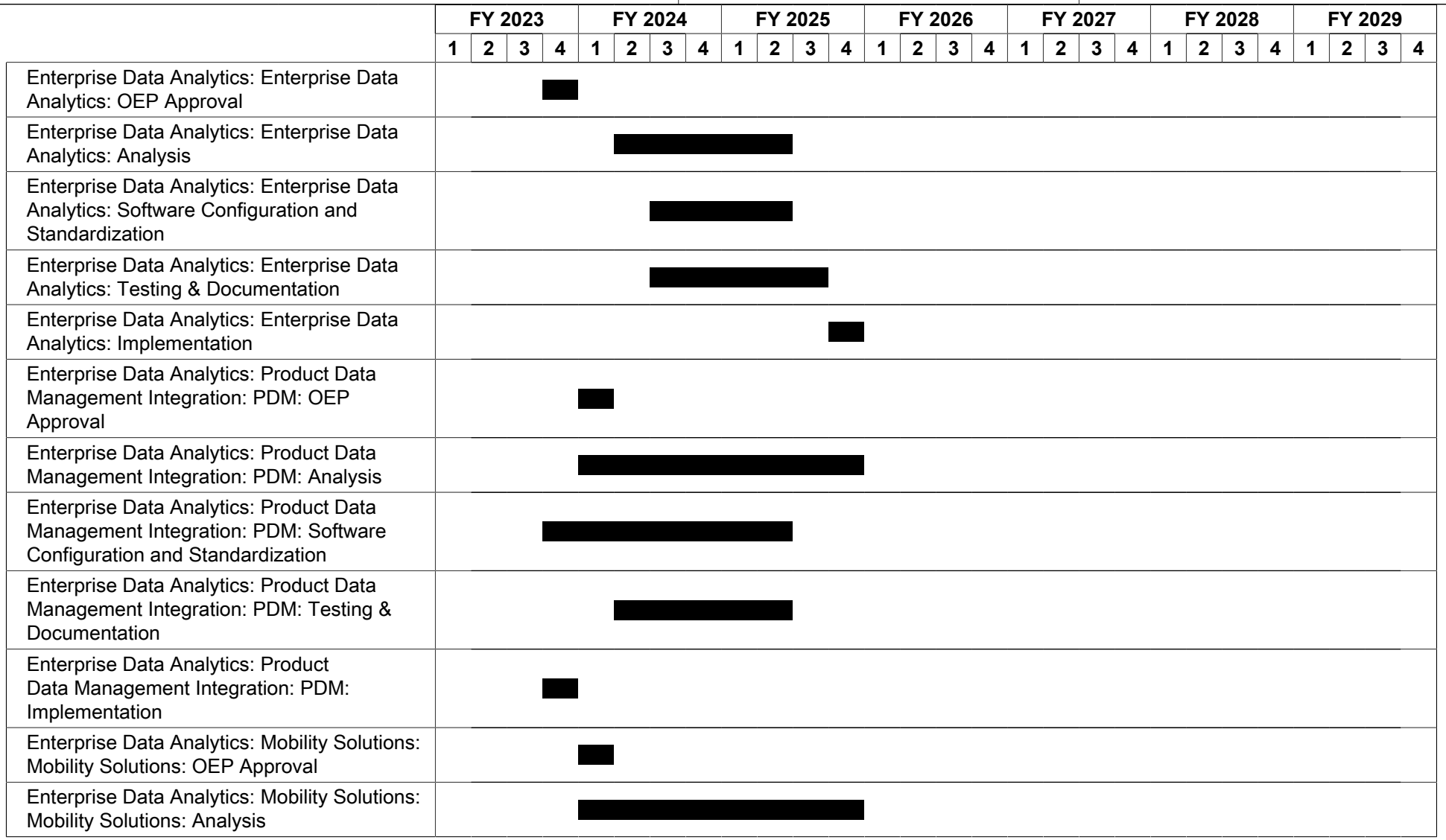


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

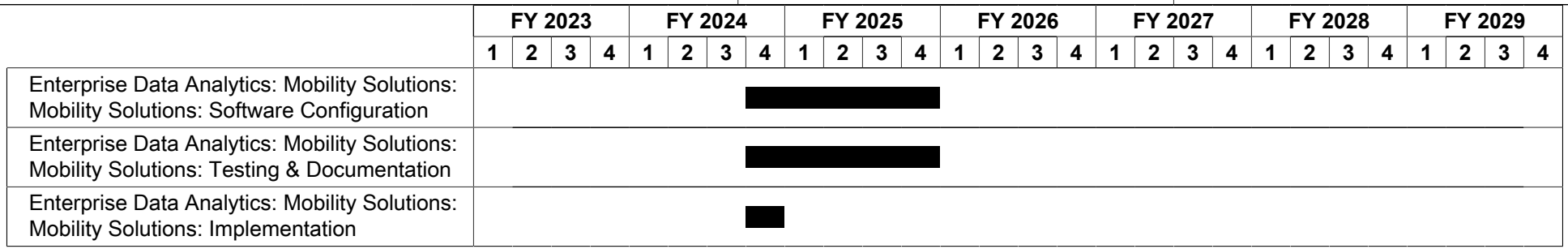


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
PAGE ONE - Lean Systems Improvement				
ELECTRONIC TECHNICAL WORK DOCUMENTS (eTWD): CEDC Buildout	3	2023	4	2024
ELECTRONIC TECHNICAL WORK DOCUMENTS (eTWD): Network Circuit Improvements	3	2023	3	2024
ELECTRONIC TECHNICAL WORK DOCUMENTS (eTWD): eTWD Software Configuration	3	2023	3	2024
ELECTRONIC TECHNICAL WORK DOCUMENTS (eTWD): AIM Changes	3	2023	3	2024
ELECTRONIC TECHNICAL WORK DOCUMENTS (eTWD): eTWD Implementation	4	2023	4	2024
PROJECT SEQUENCING & SCHEDULING (PSS) UPGRADE: PSS Upgrade Scheduling Improvement Analysis	3	2023	1	2024
PROJECT SEQUENCING & SCHEDULING (PSS) UPGRADE: Version Upgrade	3	2023	2	2024
PROJECT SEQUENCING & SCHEDULING (PSS) UPGRADE: PSS Upgrade Scheduling Improvement Software Configuration	4	2023	4	2024
PROJECT SEQUENCING & SCHEDULING (PSS) UPGRADE: PSS Upgrade Scheduling Improvement Testing & Documentation	2	2023	4	2023
PROJECT SEQUENCING & SCHEDULING (PSS) UPGRADE: PSS Upgrade Scheduling Improvement Implementation	3	2023	4	2023
PROJECT SEQUENCING & SCHEDULING (PSS) UPGRADE: PSS Critial Chain Scheduling Cross Functionality	4	2023	3	2024
PAGE THREE - Migration, Consolidation & Enhancements				
PLANNED MAINTENANCE SYSTEM (PMS): PMS UPGRADE: PMS Upgrade Analysis	1	2023	1	2023
PLANNED MAINTENANCE SYSTEM (PMS): PMS UPGRADE: PMS integration, configuration, configuration and testing	1	2024	4	2024

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
PLANNED MAINTENANCE SYSTEM (PMS): PMS UPGRADE: PMS Upgrade Testing & Documentation	1	2024	3	2024
PLANNED MAINTENANCE SYSTEM (PMS): PMS UPGRADE: PMS, SHIPS, SKED Upgrade Implementation	3	2024	3	2026
PAGE FOUR - Migration, Consolidation & Enhancements CONTINUED				
STRATEGIC PLANNING/FORECASTING (SPF): SPF UPGRADE: SPF UPGRADE Analysis	1	2023	1	2024
STRATEGIC PLANNING/FORECASTING (SPF): SPF UPGRADE: DISA Circuit Intall	1	2023	3	2025
STRATEGIC PLANNING/FORECASTING (SPF): SPF UPGRADE: SPF UPGRADE Software Configuration	3	2023	3	2025
STRATEGIC PLANNING/FORECASTING (SPF): SPF UPGRADE: SPF UPGRADE Testing & Documentation	4	2023	3	2025
STRATEGIC PLANNING/FORECASTING (SPF): SPF UPGRADE: SPF UPGRADE Implementation (includes QPS & SPF modules)	4	2024	1	2025
PAGE FIVE- Migration, Consolidation & Enhancements CONTINUED				
FINANCIAL TECHNICAL UPGRADE: Financial Tech Redirect to DON SABRS	1	2023	4	2023
FINANCIAL TECHNICAL UPGRADE: Financial Tech SW upgrade	2	2023	2	2023
FINANCIAL TECHNICAL UPGRADE: Financial Tech Upgrade Testing & Documentation	2	2023	4	2023
FINANCIAL TECHNICAL UPGRADE: Schedule Detail	1	2023	1	2023
FINANCIAL TECHNICAL UPGRADE: COST SABRS Interface Implementation	4	2023	4	2023
FINANCIAL TECHNICAL UPGRADE: Financial Tech Upgrade Implementation	3	2023	2	2024
PAGE SIX- Migration, Consolidation & Enhancements CONTINUED				
MATERIAL MANAGEMENT UPGRADE: CEDC Buildout	1	2024	4	2025
MATERIAL MANAGEMENT UPGRADE: DISA Network Circuit Improvement	1	2024	3	2025
MATERIAL MANAGEMENT UPGRADE: Material Mgmt Upgrade Analysis for Replacement	1	2024	4	2026

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
MATERIAL MANAGEMENT UPGRADE: Material Mgmt Upgrade Software Configuration	2	2024	1	2025
MATERIAL MANAGEMENT UPGRADE: Material Mgmt Upgrade Testing & Documentation	2	2023	4	2026
MATERIAL MANAGEMENT UPGRADE: Material Mgmt Upgrade Implementation	3	2023	3	2026
PAGE SEVEN- Migration, Consolidation & Enhancements CONTINUED				
NMMES MARITIME SYSTEMS ENVIRONMENT (MSE): Database Optimization: OEP Approval	1	2024	1	2024
NMMES MARITIME SYSTEMS ENVIRONMENT (MSE): Database Optimization: Analysis	1	2024	1	2025
NMMES MARITIME SYSTEMS ENVIRONMENT (MSE): DISA Circuit Upgrade	1	2024	3	2025
NMMES MARITIME SYSTEMS ENVIRONMENT (MSE): Database Optimization: Software Configuration and Standardization	4	2024	4	2025
NMMES MARITIME SYSTEMS ENVIRONMENT (MSE): Database Optimization: Testing & Documentation	3	2024	4	2025
NMMES MARITIME SYSTEMS ENVIRONMENT (MSE): Database Optimization: Implementation	4	2025	4	2025
NMMES MARITIME SYSTEMS ENVIRONMENT (MSE): SUPDESK Timekeeping: SUPDESK: Analysis	2	2024	3	2026
NMMES MARITIME SYSTEMS ENVIRONMENT (MSE): SUPDESK Timekeeping: SUPDESK: Software Configuration	3	2024	3	2026
NMMES MARITIME SYSTEMS ENVIRONMENT (MSE): SUPDESK Timekeeping: SUPDESK: Testing & Documentation	1	2024	4	2026
NMMES MARITIME SYSTEMS ENVIRONMENT (MSE): SUPDESK Timekeeping: SUPDESK: Implementation	2	2023	2	2023
NMMES MARITIME SYSTEMS ENVIRONMENT (MSE): Local Application Rationalization: Local APP/RAT: Analysis	1	2024	3	2026

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2904 / *NAVSEA IT*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
NMMES MARITIME SYSTEMS ENVIRONMENT (MSE): Local Application Rationalization: Local APP/RAT: Software Configuration/Integration	2	2024	4	2026
NMMES MARITIME SYSTEMS ENVIRONMENT (MSE): Local Application Rationalization: Local APP/RAT: Testing & Documentation	3	2024	1	2026
NMMES MARITIME SYSTEMS ENVIRONMENT (MSE): Local Application Rationalization: Local APP/RAT: Implementation	2	2023	2	2023
Enterprise Data Analytics: Enterprise Data Analytics: OEP Approval	4	2023	4	2023
Enterprise Data Analytics: Enterprise Data Analytics: Analysis	2	2024	2	2025
Enterprise Data Analytics: Enterprise Data Analytics: Software Configuration and Standardization	3	2024	2	2025
Enterprise Data Analytics: Enterprise Data Analytics: Testing & Documentation	3	2024	3	2025
Enterprise Data Analytics: Enterprise Data Analytics: Implementation	4	2025	4	2025
Enterprise Data Analytics: Product Data Management Integration: PDM: OEP Approval	1	2024	1	2024
Enterprise Data Analytics: Product Data Management Integration: PDM: Analysis	1	2024	4	2025
Enterprise Data Analytics: Product Data Management Integration: PDM: Software Configuration and Standardization	4	2023	2	2025
Enterprise Data Analytics: Product Data Management Integration: PDM: Testing & Documentation	2	2024	2	2025
Enterprise Data Analytics: Product Data Management Integration: PDM: Implementation	4	2023	4	2023
Enterprise Data Analytics: Mobility Solutions: Mobility Solutions: OEP Approval	1	2024	1	2024
Enterprise Data Analytics: Mobility Solutions: Mobility Solutions: Analysis	1	2024	4	2025
Enterprise Data Analytics: Mobility Solutions: Mobility Solutions: Software Configuration	4	2024	4	2025
Enterprise Data Analytics: Mobility Solutions: Mobility Solutions: Testing & Documentation	4	2024	4	2025
Enterprise Data Analytics: Mobility Solutions: Mobility Solutions: Implementation	4	2024	4	2024

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy											Date: March 2024	
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605013N / *Information Technology Development*				Project (Number/Name) 2905 / *BUPERS IT*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
2905: *BUPERS IT*	482.548	140.531	137.692	173.403	-	173.403	149.694	102.753	3.940	4.023	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

MyNavy Human Resources (HR) Transformation - formerly known as Manpower, Personnel, Training & Education (MPT&E) Transformation -- will change how HR services are provided throughout a Sailor's entire "Hire-to-Retire" lifecycle and improve fleet combat readiness. By streamlining processes and systems, MyNavy HR will improve the speed, accuracy, and quality of personnel and pay services, better positioning the Navy to equip and manage its people.

This effort is the linchpin of the Navy's MPT&E Business IT Transformation strategy that stems from investing in programs that directly align with the Sailor 2025 vision. The current 70-year-old business processes and 40-year-old obsolete IT systems will not sustain anticipated Fleet growth and is neither cost efficient nor effective. MyNavy HR involves revolutionary change by using agile delivery model to the greatest extent possible to implement business IT products using the Industry Best Practices Model (e.g., early investment for largest ROI, rapid prototyping, and vanilla COTS products usage.) MyNavy HR is a fully integrated portfolio of IT Systems organized into five distinct pillars: Navy Personnel and Pay (NP2), Learning Stack (LS), Enterprise Customer Relationship Management (eCRM), Single Point of Entry (SPOE), and Authoritative Data Environment (ADE). This portfolio of systems serves as the cornerstone of the OPNAV N1 MyNavy HR strategy.

The impetus for building an adaptive family of systems is gearing MyNavy HR Transformation towards customer needs. The traditional waterfall delivery methodology of IT goods and services cannot meet the emergent requirements evolving from shortened technical obsolescence. Thus, MyNavy HR Transformation will employ an Agile delivery method that is highly structured, with a repeatable software development approach designed to quickly deliver usable capability to the end user. These capabilities are packaged as Minimum Viable Products (MVPs) which are routinely delivered to the customer for their use and evaluation. Favorably received MVPs are subsequently refined and integrated into a production baseline.

Rapidly integrating a family of systems using an agile methodology necessitates an overarching system integrator and coordinator to ingest pilots and prototypes into a technical baseline. MNHR ITS will provide the Global Design & Strategic Planning to baseline the "55 to 1" technical execution plan and will articulate the "system of systems" baseline release. Additionally, pilots and prototypes that have reached sufficient maturity will be integrated and deployed into the production baseline.

AUTHORITATIVE DATA ENVIRONMENT (ADE)
The Authoritative Data Environment (ADE) is an enterprise information management system that will migrate the existing MyNavy HR legacy data warehouses into a central data repository that is composed of a data warehouse, data lake, data management tools and an Application Program Interface (API) Layer.
ADE will provide an authoritative data-sharing framework, leveraging scalable and interoperable technologies as well as business intelligence and data analytic capabilities.
ADE will need to interface and integrate with SPOE and all MyNavy HR transactional and business systems, including enabling 'plug & play' of new services, technologies, and system capabilities. Some of the key principles of ADE include:
1. Flexible architecture and scalable design.

2. Data Governance to produce authoritative, cleansed, conformed, consolidated, and calculated data.
3. Data Access to specified users.
4. Master Data Management (core elements, metadata tagging, business rules, standards, metrics, and tools).
5. Data analytics and business intelligence (descriptive, prescriptive, and predictive).
6. Identification, development, and maintenance of enterprise data policies.

ENTERPRISE CUSTOMER RELATIONSHIP MANAGEMENT (eCRM)
The MyNavy HR eCRM solution integrates business processes, supporting systems, and authoritative data to manage the Navy's workforce. eCRM is a key component of the Navy Recruiting Command's (NRC) Applicant Relationship Management (ARM), Navy Personnel Command's (NPC) My Navy Career Center (MNCC), as well as Navy Education & Training Command (NETC) and other commands that manage the Navy workforce.
The eCRM solution integrates business processes such as knowledge management, case management, performance management, and recruiting with authoritative data and automated workflows to support the Navy's recruiting efforts, manage the Navy's military workforce and their families from hire to retire and provide Sailors access to a 24/7 help center to answer HR related questions. eCRM has quarterly program increments (PI) with two planned capability deliveries within each PI. eCRM embraces continuous integration and continuous delivery of capability, so agile teams are actively involved in planning, development, testing, training and releases all year long. New capabilities, change requests, hot fixes and maintenance are included in each quarterly program increment to respond to customer needs. The eCRM solution is organized by the following three segments, with dedicated resources supporting each segment:
1. The Navy Personnel Command Organization which is comprised of:
a. Human Resources Service Center (HRSC) - Supports the Navy's active, reserve, retiree and dependent communities around the world, with a state-of-the-art fully integrated telephony solution and 24/7 help center.
b. Personnel and Pay (PERSPAY) - Supports the Navy's active, reserve, retiree and dependent communities in documenting personnel and pay actions. This occurs through direct application support and through integration and coordination with the HRSC.
c. Physical Readiness Information Management System 2 (PRIMS2) - Supports the Navy physical fitness readiness through a system-of-systems leveraging MyNavy Portal (MNP), ICAM, eCRM, and ADE.
2. The Navy Recruiting Command Organization, which is comprised of:
a. Applicant Relationship Management (ARM) which includes most of the tools the recruiters use each day.
3. The Learning Stack (LS) Organization, which is comprised of:
a. A Curriculum Development System (CDS) supporting NETC.

LEARNING STACK (LS)
The Learning Stack will provide a cloud-based material solution that will streamline learning management (course/content delivery and assessments), capture and record interactive learning experiences, enable curriculum authoring and development, provide student Sailor registration and administration, create and regulate course/student scheduling, and offer e-learning capabilities, such as distance learning.
The Learning Stack is a delivery vehicle for the following core objectives of the Ready Relevant Learning (RRL) initiative:
Learning Management System (LMS) with Assessments - MyNavy Training (MNT)
MyNavy Learning (MNL)/Learning Content Management System (LCMS) (formally known as Learning Object Repository (LOR))

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*

MyNavy Learning (MNL): User Interface (UI)/User Experience (UX), Recommender
Curriculum Data System (CDS)
RRL Rating & Career Domain Continuum (RCDC)
Student Information System (SIS)
Enterprise Resource Scheduler (ERS)
The Learning Stack is one of three lines of effort that is the Navy's strategy for IT learning continuum. The other two are RRL content modernization, and the Training Network infrastructure. Collectively, these three individual efforts will cultivate instruction content that meets Fleet validated needs (ashore and afloat), and provide keystone delivery mechanisms that will decrease training timelines, assimilate operational agility, and improve overall mission readiness.
Additionally, the Learning Stack supports the MyNavy HR Transformation Program that includes yet expands beyond the RRL core initiatives identified above. In support of the broader MyNavy HR enterprise, the Learning Stack will provide a centralized, authoritative repository for Interactive Multimedia Instruction (IMI) courseware, officer and citizen development (NJROTC and ROTC candidate management), enlisted advancement exam development and distribution, enlisted degree completions, and tuition assistance authorizations.
The RRL and MyNavy HR Transformation initiatives require the development of Learning Stack capabilities that permit:
1. Mobile & flexible delivery of modular training to the Sailor
2. Synchronization of work requirements with learning modules to ensure proper training delivery
3. Leveraging cloud-hosted capabilities to optimize the Learning Stack delivery model

NAVY PERSONNEL AND PAY (NP2)
A 2015 analysis of alternatives for integration of personnel and pay capabilities recommended the use of Oracle PeopleSoft 9.2 with Global Payroll for achieving the Navy's Personnel and Pay IT needs. Follow-on analysis conducted as part of the MyNavy HR Transformation efforts in 2016 and 2017 indicated that the most cost effective approach to achieving the Transformation goals of modernizing HR Business System IT consistent with industry best practices was de-customization of the Navy Standard Integrated Personnel System (NSIPS) which uses Oracle PeopleSoft as its core technology, integration with Global Payroll, use of General Ledger to maximize auditability and accounting functions and hosting of the integrated solution. Navy Personnel and Pay (NP2) will develop and sustain the core system of systems architecture; executing pilot programs and iterative development of capabilities for Navy's MyNavy HR Transformation.
The NP2 adapts and reengineers business processes to conform to the technical parameters of PeopleSoft 9.2 while integrating with the Direct to Treasury Pay Capability via Pay Modernization (Pay Mod). This combined effort will result in a minimally-customizable vanilla configured Commercial Off the Shelf, cloud hosted, integrated personnel and pay solution that will provide the Navy with an IT system that is modern, highly automated, auditable, and more efficient.
Implementation of NP2 will result in several key benefits:
1. Improved accuracy and auditability of personnel and pay transactions.
2. Treasury Direct Disbursing eliminating Navy reliance on the Defense Joint Military Pay System.
3. Improved permeability of Active and Reserve Components to improve accuracy and eliminate delays in pay processing when a member moves between components.
4. Increased automation of common personnel and pay transactions
5. Integration of functionality currently spread across 55+ different adhoc and outdated HR Business

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*

Systems.

SINGLE POINT OF ENTRY (SPOE)
SPOE is an integrated, unified capability that includes MyNavy Portal (MNP), Mobile Applications, and Identity, Credential and Access Management (ICAM). It also includes integration with eCRM, LS, NP2, and ADE solutions. SPOE consolidates the Navy's HR portals, knowledge, and applications into a single simplified Sailor experience. Through a multi-phased modernization approach, SPOE provides an intuitive self-service capability for Sailors to view and manage their personnel and career information. It provides Active and Reserve Sailors with personalized interactive experiences and access to relevant information including learning content, HR applications, and career business processes. SPOE forms a foundational capability for the MyNavy Career Center (MNCC) by connecting its portal and ICAM functionality with eCRM. The Navy's strategy for transformation of its MyNavy HR capabilities relies on SPOE as the user-facing capability linking Sailors to modernized personnel and pay capabilities, MyNavy Training (MNT), and ADE.
SPOE includes processes, capabilities, and functionalities, such as:
1. Integration of capabilities to include: My Navy Portal (MNP), Mobile Applications, CRM solution, and Identity Credential Access Management (ICAM)
2. MNP
A. Serve as the My NavyHR's single point of entry to Sailors HR resource
B. Provide capability to have a low bandwidth version accessible to Sailors operating in a restricted bandwidth environment
C. Provide CAC-free access for Sailors accessing MNP via personal devices such as smart phones, tablets, personal laptops and computers.
D. Provide solution set for disconnected Operations
E. Provide a private portal for Sailors to access personal HR information
F. Provide a public presence for access to non- sensitive information.
3. ICAM
A. Provide authentication and design Single Sign-On (SSO) capability for access to the objective MyNavy HR capability.
4. Mobility Program
A. Maintain the ability to host and manage mobile applications through Apple/iTunes & GooglePlay app stores and host information in MyNavy HR's Navy App Locker website and mobile app. (www.applocker.navy.mil)
B. Provide Mobile application management suite/platform and processes for agile development and sustainment of apps' portfolio.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Learning Stack (LS)	10.192	15.185	24.100	0.000	24.100
Articles:	-	-	-	-	-
FY 2024 Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
1. Conduct Technical Capabilities assessment based upon MNL Learning Content Management System (LCMS) requirements received from N1ES/N16. 2. Complete MyNavy Learning LCMS Materiel Solutions Analysis (MSA). 3. Complete MyNavy Learning UI/UX Materiel Solutions Analysis (MSA). 4. Conduct Technical Capabilities assessment for the Enterprise Resourcing Scheduler (ERS). 5. Curriculum Data System (CDS) Technical Delivery allowing the start of user acceptance testing and user training. 6. Execute LMS/LRS software procurement to support the development of the MNL LMS/LRS. 7. Execute MNL LMS/LRS Task Order for services to support the development of the MNL LMS/LRS. 8. Begin development of the cloud-based LMS to support from a Navy Enterprise perspective. ***FY 2025 Base Plans:*** 1. Conduct Technical Capabilities assessment of the Student Information System (SIS). 2. Initial Deployment of Curriculum Data System (CDS) to support data migration and to allow the creation of curriculum. 3. Execute MNL LCMS software procurement and MNL LCMS services Task Order for services to support the development of MNL LCMS. 4. Execute MNL UI/UX software procurement and MNL UI/UX Task Order for services to support the development of the MNL UI/UX. 5. Begin development of the Learning Content Management System ((LCMS) (previously referred to as LOR) to house RRL content objects necessary for course creations/modifications. 6. Initial Deployment of the LMS to support Content Migration and end-user (Sailor) access and use. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 increase ($8.915M) supports the maturity and delivery of Learning Stack (LS) requirements that support RRL initiatives.					
Title: Single Point of Entry (SPOE)	19.498	11.250	11.940	0.000	11.940
Articles:	-	-	-	-	-
FY 2024 Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Many of these efforts are multiyear development activities that are interdependent on other pillar's growth and Career Life Event functions for systems that are shutting down. MyNavy Portal is a multi-year effort to support upgrades for sea operations, cyber improvements, and multimedia training capabilities. 1. Deploy MNP Quarterly releases to enhance capabilities for Sailor Self-Service, Personnel and Pay Data, public portals, and private portals: A. Enhance Sailors abilities to conduct HR requirements in capabilities to support Sailors in low-bandwidth and Disconnected environments. B. Continue development and integration of portal capabilities for Sailors to manage their careers in an intuitive self-service web environment. C. Perform HR system and website consolidations in order to streamline MyNavy HR applications and capabilities. D. Design, develop and deploy MyNavy Public (IL2) Presence which will provide Sailors with a dynamic and enhanced user experience to access general HR information without the need to login to MNP Private. FY24 development focuses on establishing the framework for a public portal. E. Design, develop and deploy MNP Private which will provide Sailors with easy access to a personalized HR dashboard for Personnel, Pay, Training, Education and other related information. 2. ICAM A. Deploy Single-Sign On capabilities to provide Sailors easier access to MyNavy HR programs. B. Deliver Sponsored Access to initial user groups without CAC. C. Integrate with MyNavy HR programs enabling CAC, CAC-free, and CAC-less user access. D. Complete migration to IL4. 3. Mobile Applications A. Deploy new updates, functionality, and capability enhancements to mobile applications. B. Develop at least three new mobile applications and 20 app updates. ***FY 2025 Base Plans:*** MyNavy Portal is the single gateway for Sailors to conduct general, and personal, HR activities while ashore and afloat. It is designed for Sailors to be a "one stop shop" which will provide Single-Sign On access to multiple HR systems for Career Life events from recruitment to retirement. 1. MNP A. Deploy MNP quarterly and monthly releases to enhance capabilities for Sailor Self-Service, Personnel and Pay Data, public portals, and private portals:					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
B. Develop and implement latest technology to improve the Sailors Experience in low-bandwidth and disconnected environments while deployed afloat or in other bandwidth challenged areas. C. Expand portal with modern capabilities to improve Sailors self-service management of their careers in an instinctive web environment. D. Design, develop, and perform system consolidations in support of the MyNavy HR Transformation System Shutdown schedule such as CeTARS, NMPBS and EMPRS. E. Design, develop and deploy MyNavy Public (IL2) Presence which will provide Sailors with a dynamic and enhanced user experience to access general HR information without the need to login to MNP Private. FY25 development is a significant expansion of the public facing presence, requiring a collaborative effort with all functional communities to populate the portal content. F. Design, develop and implement the Sailor Landing Page/Dashboard to support additional MyNavy HR professional user roles. 2. ICAM A. Continue to deploy Single-Sign On capabilities to provide Sailors easier access to MyNavy HR programs. B Deliver Sponsored Access to additional user groups without CAC (including Dependents and Former Navy). C. Integrate with MyNavy HR programs enabling CAC, CAC-free, and CAC-less user access. 3. Mobile Applications A. Deploy new updates, functionality, and capability enhancements to mobile applications B. Develop at least three new mobile applications and 20 app updates. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 increase ($0.690M) supports SPOE capacity requirements for DC2HS cloud services.					
Title: Enterprise Customer Relationship Management (eCRM)	6.820	16.127	17.870	0.000	17.870
Articles:	-	-	-	-	-
FY 2024 Plans: 1. Develop, test and deploy emerging requirements (change requests), hot fixes, software maintenance, and Salesforce Releases to ensure optimal performance, cyber security and address urgent user needs within eCRM					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
2. Continue development of the Physical Readiness Information Management System (PRIMS) 2 enhancements and deploy into the eCRM platform to incorporate emerging requirements for physical readiness testing 3. Development begins on the National Advertising and Leads Tracking System (NALTS) migration into the eCRM platform to modernize Leads development & processing capabilities resulting in enhanced recruiting performance. 4. Define requirements, develop, and deploy Digital Engagement capability into the eCRM platform to allow real-time communication with prospective Sailors and recruiters while using the data gathered to build profiles, track contacts, and archive messages contributing greatly to more efficient and successful recruitment. 5. Continue the development of the Tiered HR Service Delivery Model (formerly referred to as MNCC Re-design) capabilities (HRCS and PERSPAY) to streamline operations, improve customer ticket workflows and provide better customer service to sailors and their families. 6. Begin design, development, and integration efforts to effectively manage the Navy's workforce: - Navy Accession Security System (NASS): An online automated process for the SF-86 form - Navy's Credentialing, Apprenticeships, and Voluntary Education (CAVE): to help sailors more easily pursue professional development and educational goals and objectives - Navy's Voluntary Education (VOLED) program: to support counseling for training and education planning for sailor advancement and professional growth. - Personalized Recruiting for Immediate and Delayed Enlistment Modernization (PRIDE Mod) system: to support NRC recruiting efforts					
FY 2025 Base Plans: 1. Continue to develop, test and deploy emerging requirements (change requests), hot fixes, software maintenance, and Salesforce Releases to ensure optimal performance, cyber security and address urgent user needs within eCRM. 2. Complete Development and Deploy the National Advertising and Leads Tracking System (NALTS) migration into the eCRM platform to modernize Leads development & processing capabilities resulting in enhanced recruiting performance. 3. Complete development and deploy a Tiered HR Service Deliver Model (formerly referred to as MNCC Redesign) to streamline operations, improve customer ticket workflows and provide better customer service to sailors and their families. (Including an all-encompassing, self-service platform with fully integrated telephony, online chat, self-help articles and services) 4. Complete development and deploy the web-based Standardized Territory Evaluation and Analysis for Management (WebSTEAM) system into the eCRM platform.					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
5. Continue the development and deployment of modernized and automate HR business processes (e.g. transfers/permanent change of station, separations and retirements, accessions) to improve efficiency and accuracy of transactions and to reduce the administrative burden from the sailors in accordance with CNP's strategic design. 6. Continue the design, development, and integration efforts to effectively manage the Navy's workforce through: - Performance Evaluation Transformation (PET): will better train, develop, and retain top Navy talent. - Core Mission Support Applications for Automated Recruiting Support (CMSA-ARS) - Legal Services capability into the eCRM platform ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 increase ($1.743M) supports additional scrum team required for testing and integration efforts that incorporates a single help desk system across the MyNavy HR portfolio and integrates a new telephony system to improve customer support.					
Title: Navy Personnel and Pay (NP2)	70.631	70.133	87.093	0.000	87.093
Articles:	-	-	-	-	-
FY 2024 Plans: Efforts in FY24 focus on comprehensive testing of the configured functional modules for IOC while transitioning to the configuration and development of additional MyNavy HR Personnel functions into NP2 in support of achieving Full Operational Capability (FOC) in the out-years. System requirements will be addressed for Personnel capabilities in support of the Navy's MyNavy HR IT Transformation initiative, to include Orders / Transfers, and Personnel Management Line of Business. 1.) Continue NP2 deployment planning on additional configured functional modules to include Hire to Retire processes and functionalities to Pay Sailors and to meet audit requirements and other Navy directives. 2.) Support the continuation of DOTMLP-F functional end user testing. 3.) Begin System End-to-End Testing for Initial NP2 Release for IOC. 4.) Conduct defect remediation and usability refinement activities resulting from on-going NP2 configured functional module testing. 5.) Continue Interoperability Certification and SFIS Assessment planning with Joint Interoperability Test Command (JITC) to obtain Interim Certificate to Operate (ICTO) for Initial NP2 Release.					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
6.) Continue Developmental Test (DT) Assist events via User Acceptance Testing and Quarterly Reviews with Naval Command Operational Test & Evaluation Force (COTF). 7.) Begin design sprints for Personnel capabilities aligned to Orders / Transfers, and Personnel Management Line of Business. 8.) Support audit readiness activities to achieve reliable, accurate, and complete financial data for use in key management decisions and Financial Improvement and Audit Readiness (FIAR) compliance. 9.) Conduct Continuous Monitoring SETR through Technical Interchange Meetings (TIMs) with Technical Warrant Holders (TWHs) each Program Increment and regular recurring IPRs with Resource Sponsor and other stakeholders.					
FY 2025 Base Plans: FY25 efforts focus on continuing comprehensive testing of the configured functional modules for IOC while transitioning to the configuration and development of additional MyNavy HR Personnel functions into NP2 in support of achieving Full Operational Capability (FOC) in the out-years. System requirements will be addressed for Personnel capabilities in support of the Navy's MyNavy HR IT Transformation initiative, to include Orders / Transfers; Personnel Management, Organizational Management, and Distribution Lines of Business as identified in the MyNavy HR Portfolio Analysis Plan. 1.) Develop training materials required to support the release of NP2 IOC (Pay Functionality / TDD) 2.) Continue NP2 deployment planning on additional configured functional modules to include Hire to Retire processes and functionalities to Pay Sailors and to meet audit requirements and other Navy directives. 3.) Support the continuation of functional end user testing. 4.) Continue System End-to-End Testing for Initial NP2 Release for IOC. 5.) Continue conducting Core Pay Validation (CPV) activities that entail the monthly comparison of pay calculation results between Defense Joint Military Pay System (DJMS) and Navy Personnel and Pay (NP2) systems at the individual sailor and pay element level. 6.) Continue conducting defect remediation and usability refinement activities resulting from on-going NP2 configured functional module testing. 7.) Continue Interoperability Certification and SFIS Assessment planning with Joint Interoperability Test Command (JITC) to obtain Interim Certificate to Operate (ICTO) for Initial NP2 Release. 8.) Continue Developmental Test (DT) Assist events via User Acceptance Testing and Quarterly Reviews with Naval Command Operational Test & Evaluation Force (COTF). 9.) Begin planning to support Operational Test Readiness Review (OTRR) with Director, Operational Test and Evaluation (DOT&E).					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
10.) Continue design and begin development, integration sprints for Personnel capabilities under the Orders/ Transfers; Personnel Management Lines of Business. 11.) Support audit readiness activities to achieve reliable, accurate, and complete financial data for use in key management decisions and Financial Improvement and Audit Readiness (FIAR) compliance. 12.) Conduct Continuous Monitoring SETR through Technical Interchange Meetings (TIMs) with Technical Warrant Holders (TWHs) each Program Increment and regular recurring IPRs with Resource Sponsor and other stakeholders. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 increase ($16.960M) provided for NP2 IOC Testing support.					
Title: Authoritative Data Environment (ADE)	33.390	24.997	32.400	0.000	32.400
Articles:	-	-	-	-	-
FY 2024 Plans: 1. Perform the development, API construction, data transport, engineering, archiving, and program activities necessary to support migration of the following capabilities into the ADE environment (and support future sunset of the associated legacy systems): - Navy Training Management and Planning System - Navy Manpower Program and Budget System (NMPBS) - Navy Personnel Database (NPDB) - Shore Manpower Requirements Determination (SMRD) - Corporate Enterprise Training Activity Resource System (CETARS) - Personnel Tempo (PERSTEMPO) - My Education 2. Continue development of Minimum Viable Products (MVPs) delivering enhanced modeling tools as well as predictive & prescriptive analytic dashboards that will deliver decision-support capabilities to calculate Total Force Manpower Requirements. 3. Begin planning efforts for a classified ADE environment in IL6 to support the migration of classified systems and data within the MyNavy HR Portfolio. ***FY 2025 Base Plans:***					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
1. Continue to perform the development, API construction, data transport, engineering, archiving, and program activities necessary to support migration of the following capabilities into the ADE environment (and support future sunset of the associated legacy systems): - Navy Manpower Program and Budget System (NMPBS) - Navy Personnel Database (NPDB) - Officer Assignment Information System II (OAIS II) - Personalized Recruiting for Immediate and Delayed Enlistment Modernization (PRIDEMOD) - Career WayPoints (C-WAY) 2. Continue development of Minimum Viable Products (MVPs) delivering enhanced modeling tools as well as predictive & prescriptive analytic dashboards that will deliver decision-support capabilities to calculate Total Force Manpower Requirements. 3. Continue the development and accreditation of a classified ADE environment in IL6 to support the migration of classified systems and data within the MyNavy HR Portfolio. 4. Continue the development of an ADE document repository for the purpose of storing electronic personnel documents within the MyNavy HR Portfolio. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 increase ($7.403M) supports the development of an IL6 ADE environment which will provide access to classified MyNavyHR data and allow for the sunset of legacy classified MyNavyHR systems.					
Accomplishments/Planned Programs Subtotals	140.531	137.692	173.403	0.000	173.403

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• OMN / 3B4K: *Training Support*	20.783	23.532	25.700	-	25.700	32.419	35.477	0.104	0.106	0.000	194.314
• OMN / 4A4M: *Military Manpower and Personnel Mgmt*	200.068	248.020	248.846	-	248.846	209.200	203.050	37.261	38.531	0.000	1,627.450
• OMNR / 4A4M: *Military Manpower and Personnel Mgmt*	1.871	2.603	2.894	-	2.894	0.000	0.000	0.000	0.000	0.000	12.559

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• OMN / 1C1C: *Combat Communications and Electronic Warfare (CIVPERS)*	7.097	8.023	8.000	-	8.000	7.436	7.588	7.784	8.824	0.000	74.134

Remarks

MyNavy HR Transformation is not just a technology refresh of existing systems, Transformation is a holistic change to how MyNavy HR Services are provided. Simultaneous functional investment (O&M,N) in business processes re-engineering and acquisition investment (RDT&E) in IT is critical to increase quality, auditability, efficiency and overall personnel readiness to meet Navy readiness needs - both current and future.

1. OMN / 3B4K is required to support the sustainment costs associated with delivering a non-CAC Identity and Access Management (IdAM) capability across the MyNavy HR Enterprise that provides authentication, authorization and single sign on for access to the objective MPT&E capability. Additionally, to provide the ability to host and manage mobile applications developed through the Navy App Locker (past, present and future). In addition, continued operations and sustainment for the LS Transformation effort to acquire Software as a Service (SaaS) subscriptions, required interface maintenance with legacy systems; in addition to hosting N1 learning applications within the cloud environment. Lastly, Sustainment of SPOE system functionality to include Career Life Events, Mobile Applications, MNP Public Portal, and the credentialed identities of a larger user population which requires additional ICAM licenses

2. OMN / 4A4M This Budget Activity consists of costs required to support both the functional and acquisition requirements (in parallel with development of technology) to holistically transform and deliver an effective modernized IT Solution. These efforts include requirements generation, business process re-engineering, change and risk management.

3. OMN / 1C1C is for Civilian Labor Salaries / costs to support MyNavy HR Transformation

4. OMNR / 4A4M is required to support IT Scaffolding of legacy IT Systems. Scaffolding is "throw-away" development required for transformation and the execution of the 55:1 Shutdown Plan. Due to the change in plan and moving towards a functional (vs. System) shutdown approach drives the need for IT Scaffolding as portions of IT system capabilities are retired.

D. Acquisition Strategy

Each MyNavy HR pillar follows a progression of piloting activities to development of a Minimal Viable Product (MVP). Once an MVP is developed and is ready to be hardened to a production capability, the pillar employs the MyNavy HR Transformation System Integrator contract to ingest the MVP into an integrated technical baseline.

AUTHORITATIVE DATA ENVIRONMENT

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*

The required services are currently procured through a Cost Plus Fixed Fee (CPFF) task order awarded on a sole source contract for MyNavy HR PMW 240 enterprise services. A follow-on will be awarded in FY24. The follow-on contract will be a base year with an additional 4 option years.

ENTERPRISE CUSTOMER RELATIONSHIP MANAGEMENT (eCRM)
The required software as a service licenses are procured through the NASA SEWP V Government-wide acquisition contract (GWAC) and the required services are performed by a Small Business Act 8(a) Alaska Native Corporation (ANC) Contractor.

LEARNING STACK (LS)
Use existing Government Wide Acquisition Contracts or competitive contract for any new product sourcing, use existing Bi-Service PeopleSoft licenses, Indefinite Delivery/Indefinite Quantity contract vehicles within PMW 240 for additional design and integration services. Leverage the Interagency Agreement for an Assisted Acquisition with the Office of Personnel Management's USA Learning program.

NAVY PERSONNEL AND PAY SYSTEM (NP2)
The required services will be procured through a sole source, small business, Indefinite Delivery / Indefinite Quantity (ID/IQ) Cost Plus Fixed Fee (CPFF) 8a contract for NP2 development services and a sole source, large business, C-type Cost Plus Fixed Fee (CPFF) contract for NP2 integration

SINGLE POINT OF ENTRY (SPOE)
The required services will be procured through a Cost Plus Fixed Fee (CPFF) sole source small business, Alaska Native Contract (ANC) 8 (a) contract.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Learning Stack (LS)	C/CPFF	CACI : Pensacola, FL	26.300	10.192	May 2023	6.340	May 2024	16.704	May 2025	-		16.704	Continuing	Continuing	Continuing
MNP/SPOE	C/CPFF	Katmai : Arlington, VA	91.888	24.000	Dec 2022	10.250	Dec 2023	10.463	Dec 2024	-		10.463	Continuing	Continuing	Continuing
ADE + Data Analytics	C/CPFF	GDIT : Washington, D.C.	42.756	24.500	May 2023	19.250	May 2024	26.250	May 2025	-		26.250	Continuing	Continuing	Continuing
Portfolio System Integrator	C/IDIQ	NWCF, Falconwood : Chantilly, VA	121.256	35.293	Nov 2022	46.616	Nov 2023	52.384	Nov 2024	-		52.384	Continuing	Continuing	Continuing
eCRM Pilot	C/IDDQ	Katmai : Mclean, VA	42.589	0.658	Feb 2023	8.324	Feb 2024	7.647	Feb 2025	-		7.647	Continuing	Continuing	Continuing
NP2 Transformation	C/IDIQ	Nakupuna : Chantilly, VA	96.411	45.500	Oct 2022	46.500	Oct 2023	59.520	Oct 2024	-		59.520	Continuing	Continuing	Continuing
		Subtotal	421.200	140.143		137.280		172.968		-		172.968	Continuing	Continuing	N/A

Remarks

The Portfolio System Integrator (PSI) will deliver a portfolio-level systems integration for the MyNavy HR Enterprise to a single system of systems. This will be achieved by collaborating, coordinating, and integrating execution across the portfolio, enabling the rapid delivery of HR IT solutions to the fleet and their families. As MyNavy HR Transformation Minimal Viable Products (MVPs) are developed and capabilities fielded, development work will transition from pillar-based pilot activities that will integrate into a seamless, interoperable MyNavy HR IT Solution by implementing and executing a Scaled Agile Framework (SAFe) across the Portfolio.

LS increase in FY25 is directly attributed to the maturity and deliver of Learning Stack (LS) requirements that support RRL initiatives. In FY25 the LS will deliver Full Deployment of the CDS and Initial Deployments of MyNavy Learning capabilities, LMS, LCMS and UI / UX.

NP2 increase in FY25 is testing support required for NP2 IOC. There are six distinct NP2 government test events that will be conducted leading up to NP2 IOC with multiple Navy and DoD level organizations and stakeholders, each comprised of six phases / groupings of test scenarios. These test events will satisfy the objectives to: evaluate requirements against the NP2 system configuration, verify Government developed requirements as provided in the features, demonstrate the capabilities and personnel pay triggers that establish the associated earnings and deductions to replace DJMS AC/RC, verify and validate inbound and outgoing External interfaces by loading and verifying NP2 connectivity and load procedures, validate to ensure Interface Control Agreement (ICA's) were correctly implemented, and correct data is being passed and to support TDD capabilities, including testing and validation of a bi-directional interface with Treasury. Also, additional support is required to address the Personnel consolidation requirements as identified within the MyNavy HR Portfolio Analysis Plan.

The basis for the ADE increase is new funding in support of development of an IL6 ADE environment. The ADE IL6 environment will provide access to classified MyNavyHR data and allow for the sunset of legacy classified MyNavyHR systems. The IL6 environment is scheduled to be deployed in FY26.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
eCRM SAAS/NSIPS Bi-Service	C/IDIQ	Carahsoft : San Francisco, CA	60.580	0.000		0.000		0.000		-		0.000	0.000	60.580	-
		Subtotal	60.580	0.000		0.000		0.000		-		0.000	0.000	60.580	N/A

Remarks

Piloting efforts for the MyNavy Career Center (MNCC) have completed and the Call Centers (Millington, TN and Little Creek, VA) are operational and utilizing the Salesforce applications in their day to day operations.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Operational Test & Evaluation (OT&E)	C/FFP	COMOPTEVFOR : Arlington, VA	0.768	0.388	Dec 2022	0.412	Dec 2023	0.435	Dec 2024	-		0.435	Continuing	Continuing	Continuing
		Subtotal	0.768	0.388		0.412		0.435		-		0.435	Continuing	Continuing	N/A

Remarks

With the exception of NP2, programs are all either abbreviated acquisition programs or non-designated projects and do not require Independent Operational Test Evaluation (IOTE). Testing is performed in accordance with approved test plans by the business owners.

NP2: Testing is for technical and analytical support to 'Commander, Operational Test and Evaluation Force' (COMOPTEVFOR) in the definition, conduct and analysis of structured Initial Operational Test and Evaluation (IOT&E) of NP2

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	482.548	140.531		137.692		173.403		-		173.403	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*

PEO MLB

MyNAVY HR IT Solutions

MyNAVY HR

MyNAVY HR IT Services Transformation Executive View - FY24-29

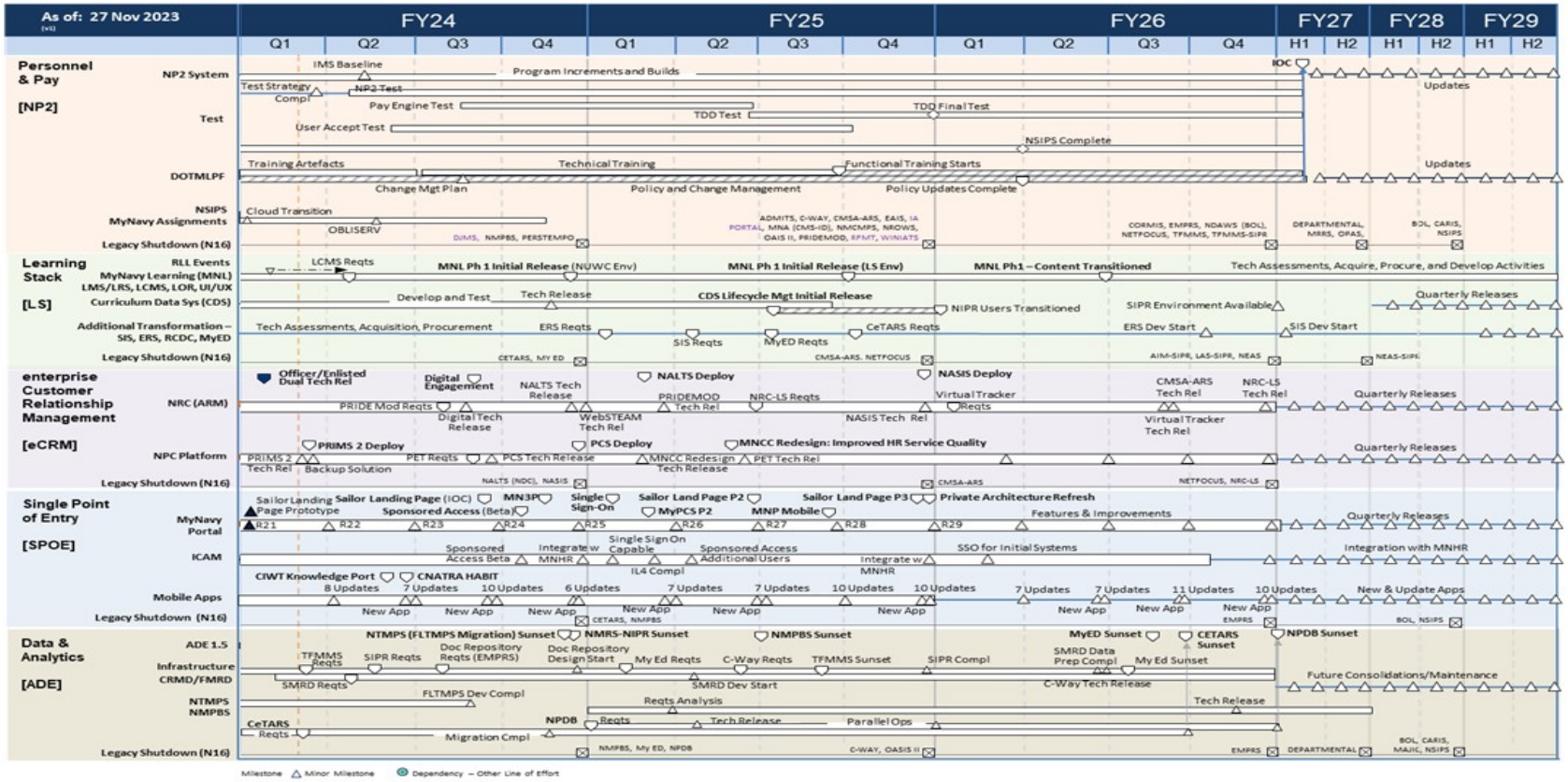


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 2905.L39				
Learning Stack: Curriculum Data System (CDS) Initial Deployment	2	2025	2	2025
Learning Stack: Curriculum Data System (CDS) Tech Delivery	4	2024	4	2024
Learning Stack: Curriculum Data System (CDS) Full Deployment	1	2026	1	2026
Learning Stack: Curriculum Delivery System (CDS) Integration	3	2023	4	2025
Learning Stack: CDS IL6 Accredited IL6 Cloud hosting	4	2026	4	2026
Learning Stack: MyNavy HR Transformation (LS) 55 to 1 System Shutdown	1	2023	4	2026
Learning Stack: MNL Phase 1 (LMS-LAS-LRS) Development	3	2024	4	2025
Learning Stack: MNL Phase 1 (LMS-LAS-LRS) Initial Deployment	4	2025	4	2025
Learning Stack: MNL Phase 1 (LMS-LAS-LRS) Full Deployment	3	2027	3	2027
Learning Stack: MyNavy Training ADO Development	3	2029	3	2029
Learning Stack: MyNavy Training ADO Tech Delivery	4	2029	4	2029
Learning Stack: CDS IL6 Deployment	2	2027	2	2027
Learning Stack: Student Information System (SIS) Development	4	2026	2	2028
Learning Stack: Student Information System (SIS) Initial Deployment	2	2028	2	2028
Learning Stack: Enterprise Reseource Scheduler Development	2	2026	1	2027
Learning Stack: Enterprise Resource Scheduler initial Deployment	1	2028	1	2028
Learning Stack: Enterprise Resource Scheduler Full Deployment	1	2029	1	2029
Learning Stack: Student Information System (SIS) Full Deployment	2	2029	2	2029
Learning Stack: Learning Content Management System (LCMS) Development	3	2025	1	2027
Learning Stack: Learning Content Management System (LCMS) Initial Deployment	1	2027	1	2027
Learning Stack: Learning Content Management System (LCMS) Full Deployment	4	2026	4	2026

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Learning Stack: MNL Phase 3 (UI/UX) Development	3	2025	2	2027
Learning Stack: MNL Phase 3 (UI/UX) Initial Deployment	2	2027	2	2027
Learning Stack: MNL Phase 3 (UI/UX) Full Deployment	3	2028	3	2028
Learning Stack: Enterprise Resource Scheduler (ERS) Development Start	1	2027	1	2027
Learning Stack: Reserve Officer Training (ROTC) and Naval Junior Officer Reserve Training Corps (NJROTC)	4	2027	2	2029
Learning Stack: Reserve Officer Training Corps (ROTC) and Naval Junior Officer Reserve Training Corps (NJROTC) Initial Deployment	2	2029	2	2029
Learning Stack: Reserve Officer Training Corps (ROTC) and Naval Junior Officer Reserve Training Corps (NJROTC Full Deployment	4	2029	4	2029
Learning Stack: Management Information System - JST, USMAP and NCMIS initial capability {MyEducation IOC}	1	2029	1	2029
Learning Stack: Navy College Management Information System - JST, USMAP and NCMIS full capability {MyEducation FOC}	1	2029	1	2029
Learning Stack: Navy Advancement Exam System (NEAS) Development	4	2027	2	2029
Learning Stack: Navy Advancement Exam System (NEAS) Initial Deployment	2	2029	2	2029
Learning Stack: Navy Advancement Exam System (NEAS) Full Deployment	4	2029	4	2029
Learning Stack: NFLTO Development	4	2027	2	2029
Learning Stack: NFLTO Initial Deployment	2	2029	2	2029
Learning Stack: NFLTO Full Deployment	4	2029	4	2029
NAVY PERSONNEL AND PAY (NP2)				
NP2 Quarterly Program Increments (PI)	1	2023	4	2028
NP2: System Configuration Complete	1	2023	2	2023
NP2 Configured Functional Module	3	2023	3	2023
NP2: Continuous Monitoring - Quarterly Systems Engineering Technical Reviews	1	2023	4	2028
NP2: Integration and Testing: Product Level Testing	1	2023	4	2025
NP2: System of System Testing	4	2024	4	2026

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
NP2: User Accept Test	2	2024	4	2025
NP2: Technical Training Materials	3	2023	4	2026
NP2: System Integration	1	2023	1	2027
NP2: Legacy Integration and Scaffolding	1	2023	2	2026
NP2: Interface Partner Testing (includes ERP and TDD)	2	2025	1	2027
NP2: Only Testing	3	2023	4	2024
NP2: Only User Acceptance Testing	4	2023	1	2025
NP2: End to End Testing	1	2024	4	2026
NP2: End to End Testing User Acceptance Testing	1	2024	1	2027
NP2: Core Pay Validation Cycles	1	2023	1	2027
NP2: MyNavy HR Transformation 55 to 1 System Shutdown	1	2023	4	2028
NP2: Conduct SFIS Assessment	1	2026	4	2026
NP2: Conduct Operational Test Readiness Review	1	2027	1	2027
NP2: Design, development, integration sprints for Orders / Transfers	3	2024	4	2026
NP2: Design, development, integration sprints for Personnel Management Line of Business	1	2024	4	2028
NP2: Design, development, integration, and testing sprints for Organizational Management Line of Business	1	2026	4	2026
NP2: Design, development, integration, and testing sprints for Distribution Line of Business	1	2026	4	2026
Authoritative Data Environment (ADE)				
ADE 2.0 NTMPS Migration	1	2023	4	2024
ADE 2.0 NPDB Migration	1	2023	4	2026
ADE 2.0 CETARS Migration	1	2023	3	2026
Commanders Risk Mitigation Dashboard Full Deployment	1	2023	1	2023
Fleet Manpower Requirements Dashboard Full Deployment	3	2023	4	2023

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
ADE 2.0 Capability Drops NMRS, NTMPS. WEBSTEAM	1	2023	3	2024
ADE 2.0 Capability Drops NMPBS, NPDB, SMRD, OAIS II, PERSTEMPO, PRIDEMOD, MY EDUCATION	1	2023	3	2025
Predictive Dashboard	1	2023	4	2025
Enterprise Customer Relationship Management (eCRM)				
Develop, test and deploy emerging requirements, hot fixes, software maintenance, and Salesforce Releases to ensure optimal performance, cyber security and address urgent user needs within eCRM	1	2023	4	2026
Develop and deploy Physical Readiness Information Management System enhancements to incorporate emerging requirements for physical readiness testing.	2	2023	1	2024
MNCC Redesign efforts to streamline operations, improve customer ticket workflows and provide better customer service to sailors and their families.	3	2023	1	2025
Migrate National Advertising Leads Tracking System into eCRM	2	2024	1	2025
Validate need to Integrate PRIDE MOD into eCRM	2	2024	3	2024
Validate need to Integrate CAVE and VOLED into eCRM	2	2024	2	2024
Validate need to integrate NASIS into eCRM	2	2024	3	2024
Validate need to integrate NRC Virtual Recruiter Tracker into eCRM	2	2025	3	2025
Validate need to integrate NRC Legal Services into eCRM	2	2025	3	2025
Validate need to integrate CMSA-ARS into eCRM	2	2025	3	2025
Validate need to integrate PET into eCRM	2	2025	3	2025
Single Point of Entry (SPOE)				
MNCC Updates	1	2023	4	2025
MNP Quarterly Updates	1	2023	4	2025
Mobile Apps Deployment and Updates	1	2023	1	2025
ICAM Deployment and Updates	1	2023	4	2028
Sunset NMPDS	4	2024	4	2024
Sunset NTMPS	4	2024	4	2024

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2905 / *BUPERS IT*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Sunset NSIPS	4	2028	4	2028
Legacy Website / Portal Consolidation	1	2023	2	2023
ICAM SSO Solution Determined	1	2023	1	2023
Achieve MNP/ICAM Single Sign-On Sponsored Access	4	2024	4	2024
ICAM Integrate MNHR	4	2023	4	2023
MNP LMS Deploy	1	2023	1	2023
MNP Quarterly Releases	1	2023	4	2028
MNP Sponsored Access	2	2024	2	2024
MNP Single Sign On	1	2025	1	2025
MNP FOC	4	2024	4	2024

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy											Date: March 2024	
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605013N / *Information Technology Development*				Project (Number/Name) 2953 / *Model Based Product Support (MBPS)*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
2953: *Model Based Product Support (MBPS)*	0.000	10.391	20.532	14.334	-	14.334	11.518	11.790	11.996	12.202	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

MODEL BASED PRODUCT SUPPORT (MBPS) - Is the maritime component of Navy Product Lifecycle Management (PLM):
As supported by PEO MLB, Logistics Information Technology (LOG-IT) modernization will provide the capability of performing integrated, real-time, data driven operational and shore logistics thru an integrated infrastructure comprised of three basic and interdependent product lines, Navy PLM, Navy Supply Chain Management (SCM) and Navy Maintenance, Repair and Overhaul (MRO) lines of effort which enable warfighter readiness. LOG-IT systems must be able to operate in disconnected environments with modern, cyber-secure and auditable systems that compress the Kill Chain. The MBPS program is major authoritative data source for LOG-IT. The MBPS program modernizes ship / submarine readiness modeling, technical data management, and configuration management IT systems to enable advanced digital twin and readiness analytics capabilities. MBPS provides capability to migrate legacy LOG IT applications into an integrated Navy Product Life-Cycle Management (N-PLM) environment to include both maritime and aviation support. It will be hosted in a Government-approved commercial cloud environment and used on a 24/7 basis by over 200,000 personnel assigned to 286 ships/submarines, all aircraft and over 700 shore-based activities, impacting a yearly $6.5B investment in product sustainment.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Model Based Product Support (MBPS)	10.391	20.532	14.334	0.000	14.334
Articles:	-	-	-	-	-
FY 2024 Plans: The N-PLM program support for maritime under MBPS modernizes ship / submarine readiness modeling, technical data management, and configuration management IT systems to enable advanced digital twin and readiness analytics capabilities. This additional configuration is for added capability directed by ASN RDA in support of OPNAV N4 Digital Transformation to migrate 200+ legacy LOG IT applications into an integrated Navy Product Life-Cycle Management (PLM) environment with MBPS being the maritime component of NPLM. Replacement of additional legacy systems enables reinvestment in additional capabilities. Legacy capabilities are no longer supportable within future environments due to technological and cybersecurity advancements and do not meet requirements for future enhanced digital capability. Classified environment is necessary to support recent NC3 mandate. Transition to a single Naval PLM environment has been directed by ASN RDA and enables reinvestment in additional capability. Investment in N-PLM solution reduces duplicative functionality, infrastructure and associated IT sustainment costs thru rationalization of existing LOG IT applications into single integrated Navy PLM environment. Provides warfighter with improved process					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2953 / *Model Based Product Support (MBPS)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
efficiencies, enhanced data analytics capability and predictive analytical tools to more effectively model/ predict system and platform readiness in real time to rapidly prioritize resources to support changing mission requirements. FY24 funding is required to support engineering assessment of legacy business processes, applications, interfaces and cybersecurity requirements in to award capability development on Other Transaction Authority to sunset Resource replacement of additional N4-directed legacy systems for Outfitting Requisition Control and Accounting System, Program support data Automated Reporting and Tracking System, Real-time Outfitting Management Information System-Material Management Support, Budget Planning System (ORCAS, PARTS, ROMIS-MMS, BPS) applications in FY25. ***FY 2025 Base Plans:*** FY25 RDTEN funding will be used to deploy the seventh LD (Limited Deployment) for MBPS to include Integrated Training delivery, unclassified naval nuclear propulsion information (U-NNPI) hosting environment (impact level 5 ATO achieved), provide provisioning capability and sunset of the Interactive Computer Aided Provisioning System (ICAPS). Begin development of the eighth LD (Limited Deployment)for MBPS to release the Navy Common Readiness Modeling capability, this provides the integrated solution for predictive analytics, reporting, and optimization of weapon system readiness and O&S cost throughout the life cycle. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 decrease ($6.198M) due to completion of T&E efforts and subsequent deployment efforts.					
Accomplishments/Planned Programs Subtotals	10.391	20.532	14.334	0.000	14.334

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• OMN/1B2B/12BF0: *Model Based Product Support (MBPS)*	11.709	13.189	13.460	-	13.460	13.313	13.551	13.488	13.758	Continuing	Continuing
• SCN/5110/0204228N: *Technical Publications*	9.182	9.447	10.216	-	10.216	10.510	10.740	11.003	11.223	Continuing	Continuing

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2953 / *Model Based Product Support (MBPS)*

D. Acquisition Strategy

Modernize existing Command Technical Data (CTD), Configuration Management, Readiness and Provisioning / Outfitting logistics information technology systems. The MBPS project will follow a rapid delivery acquisition approach (incremental development and fielding of capabilities) to deliver an integrated and production ready solution.

To date the MBPS Program has released three (3) contracts to support development:

1) Other Transaction Authority (OTA) contract for incremental development to include initial "pick and click" type training

2) Sole source contract awarded to PTC for Software as a Service (SaaS)

3) Phase III SBIR Task Order 2 to Frontier Technology Inc to deliver foundational training execution

A FAR based contract will be awarded in the future to support sustainment. Following LD (Limited Deployment) completion, MBPS will be deployed across the Navy enterprise and Full Operational Capability (FOC) established. Following full deployment, MBPS will enter the sustainment period of its lifecycle.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2953 / *Model Based Product Support (MBPS)*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
System Development and Refinement	C/FFP	United States Army Contracting Command : Orlando, FL	0.000	3.583	Oct 2022	14.400	Oct 2023	3.584	Oct 2024	-		3.584	Continuing	Continuing	Continuing
		Subtotal	0.000	3.583		14.400		3.584		-		3.584	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Software & Data Integration	C/FFP	Parametric Technology Corporation : Boston, MA	0.000	5.500	Jan 2023	2.140	Jan 2024	7.167	Jan 2025	-		7.167	Continuing	Continuing	Continuing
		Subtotal	0.000	5.500		2.140		7.167		-		7.167	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	C/FFP	United States Army Contracting Command : Orlando, FL	0.000	1.308	Oct 2022	1.792	Oct 2023	2.150	Oct 2024	-		2.150	Continuing	Continuing	Continuing
		Subtotal	0.000	1.308		1.792		2.150		-		2.150	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2953 / *Model Based Product Support (MBPS)*

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
System Development and Refinement	C/FFP	Booz allen Hamilton : Tysons Corner, Virginia	0.000	0.000		2.200	Dec 2023	1.433	Dec 2024	-		1.433	0.000	3.633	-
		Subtotal	0.000	0.000		2.200		1.433		-		1.433	0.000	3.633	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	10.391		20.532		14.334		-		14.334	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2953 / *Model Based Product Support (MBPS)*

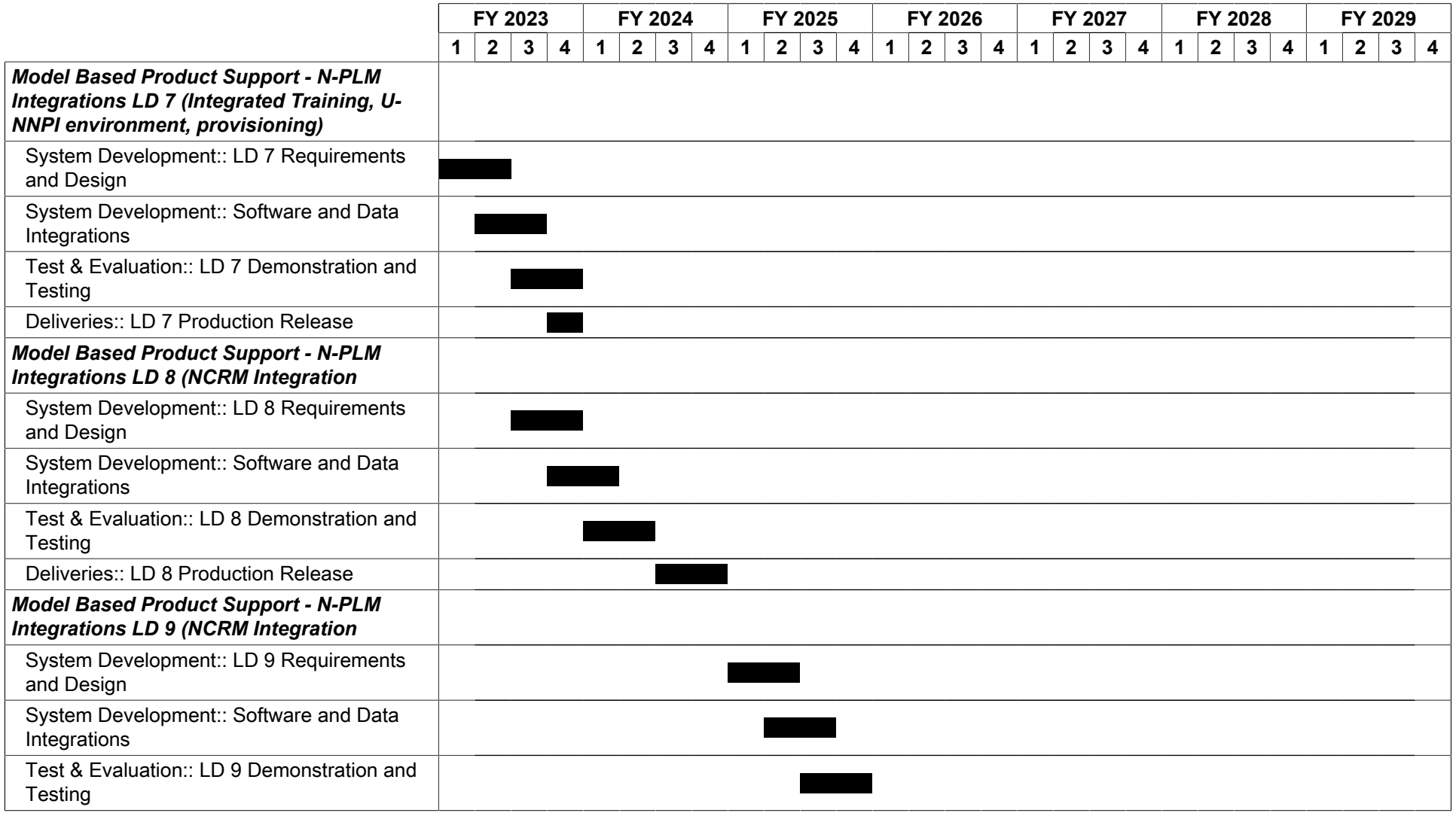


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2953 / *Model Based Product Support (MBPS)*

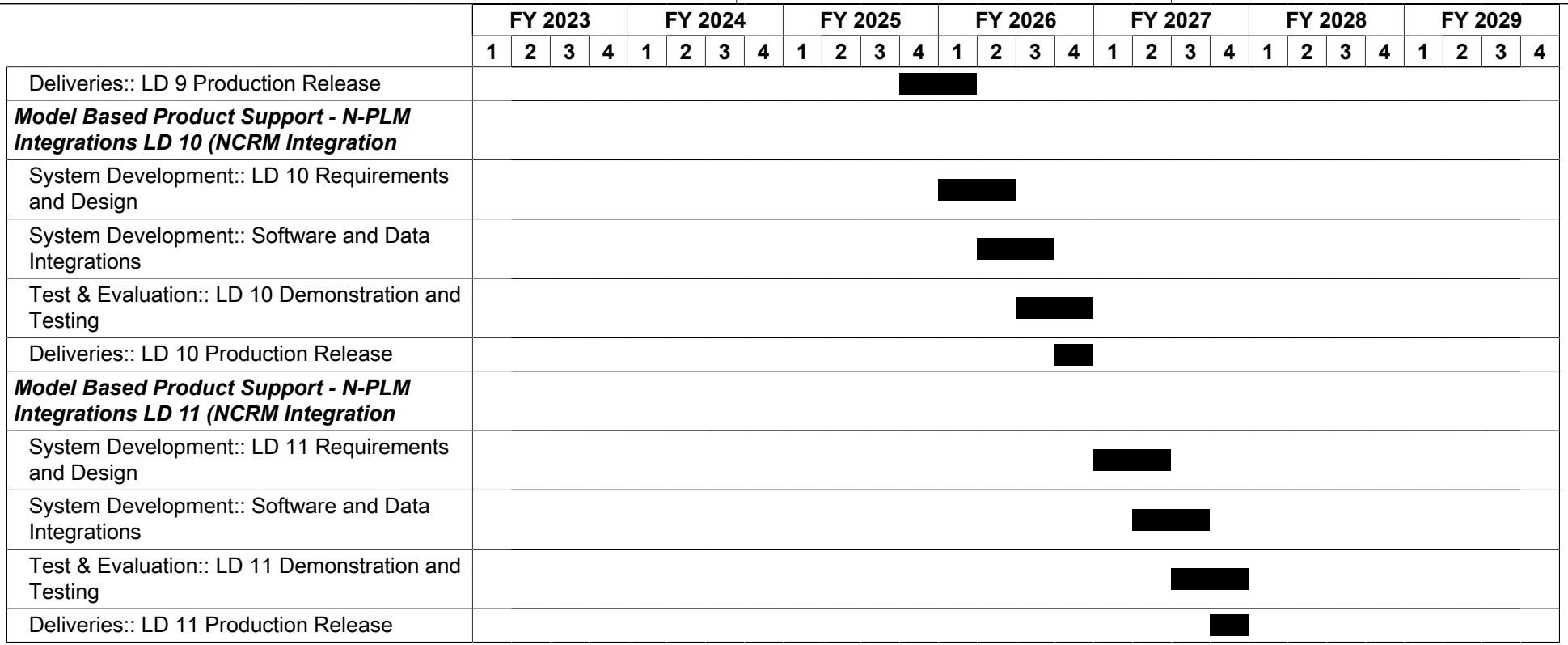


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2953 / *Model Based Product Support (MBPS)*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Model Based Product Support - N-PLM Integrations LD 7 (Integrated Training, U-NNPI environment, provisioning)				
System Development:: LD 7 Requirements and Design	1	2023	2	2023
System Development:: Software and Data Integrations	2	2023	3	2023
Test & Evaluation:: LD 7 Demonstration and Testing	3	2023	4	2023
Deliveries:: LD 7 Production Release	4	2023	4	2023
Model Based Product Support - N-PLM Integrations LD 8 (NCRM Integration				
System Development:: LD 8 Requirements and Design	3	2023	4	2023
System Development:: Software and Data Integrations	4	2023	1	2024
Test & Evaluation:: LD 8 Demonstration and Testing	1	2024	2	2024
Deliveries:: LD 8 Production Release	3	2024	4	2024
Model Based Product Support - N-PLM Integrations LD 9 (NCRM Integration				
System Development:: LD 9 Requirements and Design	1	2025	2	2025
System Development:: Software and Data Integrations	2	2025	3	2025
Test & Evaluation:: LD 9 Demonstration and Testing	3	2025	4	2025
Deliveries:: LD 9 Production Release	4	2025	1	2026
Model Based Product Support - N-PLM Integrations LD 10 (NCRM Integration				
System Development:: LD 10 Requirements and Design	1	2026	2	2026
System Development:: Software and Data Integrations	2	2026	3	2026
Test & Evaluation:: LD 10 Demonstration and Testing	3	2026	4	2026
Deliveries:: LD 10 Production Release	4	2026	4	2026
Model Based Product Support - N-PLM Integrations LD 11 (NCRM Integration				

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 2953 / *Model Based Product Support (MBPS)*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
System Development:: LD 11 Requirements and Design	1	2027	2	2027
System Development:: Software and Data Integrations	2	2027	3	2027
Test & Evaluation:: LD 11 Demonstration and Testing	3	2027	4	2027
Deliveries:: LD 11 Production Release	4	2027	4	2027

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy											Date: March 2024	
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605013N / *Information Technology Development*				Project (Number/Name) 3167 / *Joint Technical Data Integration (JTDI)*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
3167: *Joint Technical Data Integration (JTDI)*	59.568	6.252	8.077	8.022	-	8.022	7.942	8.077	8.312	8.487	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Joint Technical Data Integration (JTDI) Program - Funding provides an enterprise common data transport solution to support the future state for Logistics IT and Readiness: Naval Product Lifecycle Management (N-PLM), Naval Maintenance, Repair, and Overhaul (N-MRO), Naval Supply Chain Management (N-SCM), and Integrated Data Environment (IDE). In addition to transporting authoritative technical data to maintainers in the ashore, afloat, and expeditionary environments, JTDI also automates the movement of CBM+ data generated by smart weapon systems deployed around the globe, consolidates and makes platform sensor data available for automated ingest into the Standard Data Repository, which provides modern, highly integrated analytic capabilities to enable condition-based maintenance processes. JTDI is a digital technical data access, delivery and local Organizational & Intermediate level library management toolset that improves accuracy and timeliness of weapon system repair manuals and other technical data delivery, minimizes the Fleet's library management burden, and reduces maintenance work hours with a Return on Investment of 2.5:1. Funding supports the evaluation, testing and integration to develop a JTDI Government Off-The-Shelf (GOTS) solution for installation on Carrier and Amphibious Assault class ships, the Consolidated Afloat Networks and Enterprise Services Network (CANES), and at other globally deployed Navy/Marine Corps activities. JTDI is aligned with NAVAIR LOG IT digital transformation objectives and Navy Digital Roadmap.

Marine Aviation Logistics Enterprise Information Technology (MAL-EIT) - MAL-EIT funding supports the evaluation, development, testing and integration of software and hardware solutions across all US Marine Corps Aviation activities to be used in the planning and execution of geographically distributed, expeditionary Aviation Logistics (AVLOG) chains in support of deployed USMC Air Combat Element operations. The MAL-EIT Program is one of four programs contained within the Marine Aviation Logistics Support Program (MALSP) modernization program known as MALSP II. Legacy MALSP is nearly 25 years old and grossly inadequate in IT capability to meet the informational, planning, and C2 needs of a dynamic, geographically distributed nodal AVLOG system. MAL-EIT is a Defense Business System Abbreviated Acquisition Program that will develop and deliver the required IT capability necessary to eliminate the IT related gaps existing in the legacy MALSP. MAL-EIT is a family of IT solutions to be developed and delivered in three increments. These increments are depicted below:

Expeditionary Pack Up Kit (EPUK): Provides Expeditionary Supply Operations to include business administration, inventory, and customer service operations.

Next Generation Buffer Management System: Provides buffer management in a time domain, and buffer sizing analysis.

Logistics Planning Tool and Optimizer Tool: Provides capability to develop tailored Remote Expeditionary Support Packages, consumption forecasts, and Nodal Logistics Lay down designs.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 3167 / *Joint Technical Data Integration (JTDI)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Joint Technical Data Integration (JTDI)	5.430	5.875	5.893	0.000	5.893
Articles:	-	-	-	-	-
FY 2024 Plans: Conduct development, modernization, obsolescence management, and cybersecurity mandated activities associated with a major release of fully deployed COTS-intensive JTDI system Version 2.0.8.5. Conduct COTS requirements definition, evaluation, integration, and testing of annual baseline releases. Perform development and testing to modernize top tier file management to reduce resource intensive tasks; extend cloud capabilities; automate configuration management modules; initial, limited capability to push analytics to the deployed/ distributed edge; continue integration of modules to enhance cyber security and enable tighter configuration control over globally deployed IT assets.					
FY 2025 Base Plans: Continue to conduct development, modernization, obsolescence management, and cybersecurity mandated activities associated with a major release of fully deployed COTS-intensive JTDI system Version 2.1.0.0. Continue to conduct COTS requirements definition, evaluation, integration, and testing of annual baseline releases. Continue to perform development and testing to modernize top tier file management to reduce resource intensive tasks; extend cloud capabilities; automate configuration management modules; initial, limited capability to push analytics to the deployed/distributed edge; continue integration of modules to enhance cyber security and enable tighter configuration control over globally deployed IT assets.					
FY 2025 OCO Plans: N/A					
FY 2024 to FY 2025 Increase/Decrease Statement: FY25 increase ($0.018M) supports higher costs for software engineering, integration, testing, and cybersecurity activities associated with development/modernization of JTDI system release 2.1.0.0.					
Title: Marine Aviation Logistics Enterprise Information Technology (MAL-EIT)	0.822	2.202	2.129	0.000	2.129
Articles:	-	-	-	-	-
FY 2024 Plans: Continued refinement and updates to the Logistics Planning Tool (LPT). Establishment of the Next Generation Buffer Management System (NGBMS) web application. Synchronization and communication links established between LPT and NGBMS applications.					
FY 2025 Base Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 3167 / *Joint Technical Data Integration (JTDI)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Continued refinement and updates to the Logistics Planning Tool (LPT). Establishment of Deployed Logistics Solution (DLS) web application. Synchronization and communication links established between LPT and DLS applications. Onsite Training/Support DLS 1.0 and LPT 2.1. Working DLS compatibility with Naval Operational Supply System (NOSS). ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 decrease ($0.073M) is due Navy Training System Plan (NTSP) support.					
Accomplishments/Planned Programs Subtotals	6.252	8.077	8.022	0.000	8.022

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• OPN/4268/JTDI: *Joint Technical Data Integration (JTDI) Other Aviation Support Equipment*	2.650	2.700	2.748	-	2.748	2.861	2.911	2.986	3.049	Continuing	Continuing

Remarks

JTDI funds are only a portion of OPN Line Item 4268.

D. Acquisition Strategy

Joint Technical Data Integration (JTDI) Program - The management approach includes the Logistics IT Portfolio Management Office residing in NAVAIR as part of Program Executive Office for Aviation Common Systems and Commercial Services. The evolutionary development approach will be used to execute requirements. Contracting for the prime integrator will be via competitively awarded indefinite delivery - indefinite quantity contracts.

Marine Aviation Logistics Enterprise Information Technology (MAL-EIT) Program - The management approach includes the Logistics IT Portfolio Management Office residing within NAVAIR as part of Program Executive Office for Aviation Common Systems and Commercial Services and Milestone Decision Authority delegated to NAVAIR Sustainment Group. The evolutionary development approach will be used to execute requirements. Contracting for the prime integrator will be via competitively awarded cost plus fixed fee contracts.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605013N / *Information Technology Development*	Project (Number/Name) 3167 / *Joint Technical Data Integration (JTDI)*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Development/ Hardware Integration for Marine Aviation Logistics Enterprise Information Technology (MAL-EIT)	C/CPFF	KBR : Patuxent River, MD	8.291	0.190	Oct 2022	0.000		1.003	Dec 2024	-		1.003	Continuing	Continuing	Continuing
Prior year support no longer funded in the FYDP	Various	Various : Various	23.079	0.000		0.000		0.000		-		0.000	0.000	23.079	-
Software Development for JTDI	C/FFP	KBR : Patuxent River, MD	7.974	0.000		3.545	May 2024	0.000		-		0.000	0.000	11.519	Continuing
Software Development/ Hardware Integration for Marine Aviation Logistics Enterprise Information Technology (MAL-EIT)	C/FFP	NSI : Patuxent River, MD	1.845	0.245	Oct 2022	1.128	Apr 2024	0.000		-		0.000	0.000	3.218	Continuing
Software Development for JTDI	C/T&M	GSA/KBR : Patuxent River, MD	0.000	3.060	May 2023	0.000		3.547	Oct 2024	-		3.547	Continuing	Continuing	Continuing
		Subtotal	41.189	3.495		4.673		4.550		-		4.550	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	C/CPFF	KBR/MAL : Patuxent River, MD	1.955	0.155	Jun 2023	0.000		0.587	Dec 2024	-		0.587	Continuing	Continuing	Continuing
Prior Year Developmental Test & Evaluation Not Funded FYDP (PYDT&E)	Various	Various : Various	3.080	0.000		0.000		0.000		-		0.000	0.000	3.080	-
Developmental Test & Evaluation (DT&E)	C/FFP	KBR/JTDI : Patuxent River, MD	4.792	0.000		1.777	May 2024	0.000		-		0.000	0.000	6.569	Continuing
Developmental Test & Evaluation (DT&E)	C/T&M	GSA/KBR/JTDI : Patuxent River, MD	0.000	1.824	May 2023	0.000		1.784	Oct 2024	-		1.784	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	C/FFP	NSI/MAL : Patuxent River, MD	0.000	0.116	Oct 2022	0.693	Apr 2024	0.000		-		0.000	0.000	0.809	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605013N / *Information Technology Development*	Project (Number/Name) 3167 / *Joint Technical Data Integration (JTDI)*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	9.827	2.095		2.470		2.371		-		2.371	Continuing	Continuing	N/A

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support MAL-EIT	WR	NAWCAD : Patuxent River, MD	0.771	0.000		0.028	Oct 2023	0.200	Oct 2024	-		0.200	0.000	0.999	Continuing
Program Management Support MAL-EIT	C/CPFF	KBR : Patuxent River, MD	1.795	0.077	Jun 2023	0.180	Jul 2024	0.339	Dec 2024	-		0.339	Continuing	Continuing	Continuing
Prior year Mgmt Svcs Cost no longer funded in the FYDP	Various	Various : Various	4.614	0.000		0.000		0.000		-		0.000	0.000	4.614	-
Systems Engineering Support - JTDI	C/FFP	KBR : Patuxent River, MD	1.372	0.000		0.553	May 2024	0.000		-		0.000	0.000	1.925	Continuing
Systems Engineering Support - JTDI	C/T&M	GSA/KBR : Patuxent River, MD	0.000	0.546	May 2023	0.000		0.377	Oct 2024	-		0.377	Continuing	Continuing	Continuing
Program Management Support MAL-EIT	C/FFP	NSI : Patuxent River, MD	0.000	0.039	Oct 2022	0.173	Apr 2024	0.000		-		0.000	0.000	0.212	Continuing
Program Management Support JTDI	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.000		0.185	Oct 2024	-		0.185	Continuing	Continuing	Continuing
		Subtotal	8.552	0.662		0.934		1.101		-		1.101	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	59.568	6.252		8.077		8.022		-		8.022	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 3167 / *Joint Technical Data Integration (JTDI)*

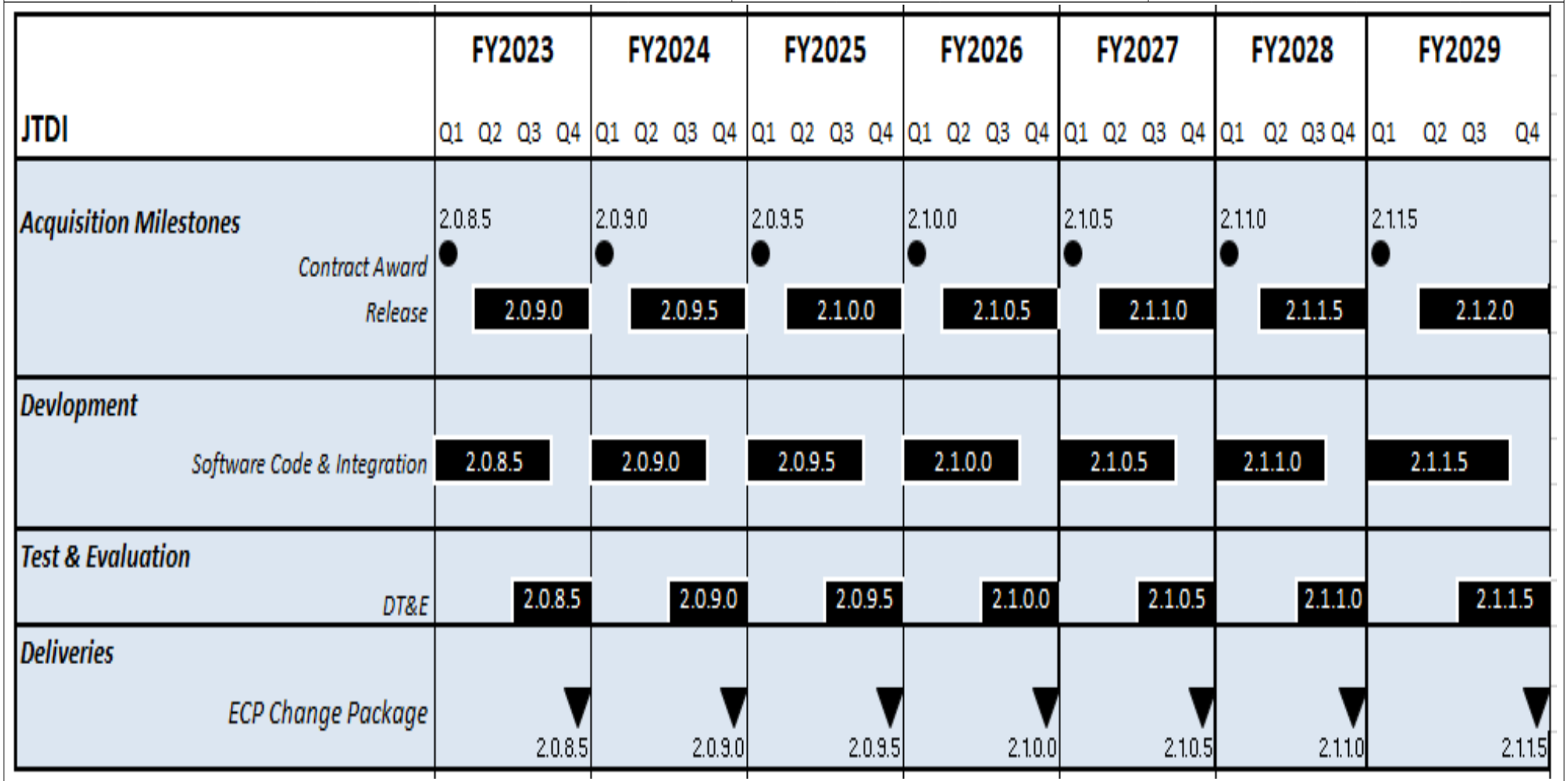


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 3167 / *Joint Technical Data Integration (JTDI)*

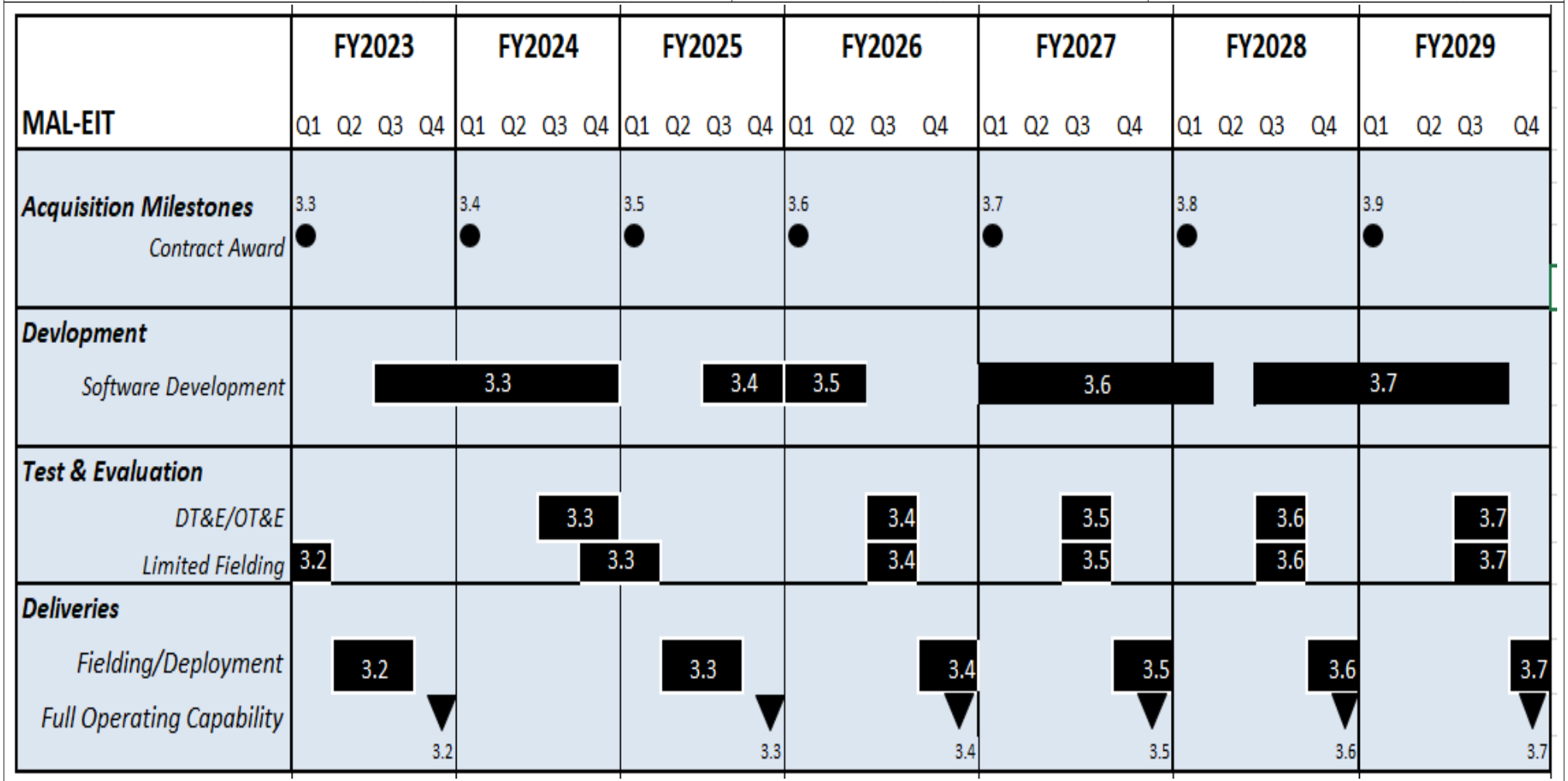


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 3167 / *Joint Technical Data Integration (JTDI)*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
JTDI				
Release 2.0.9.0	2	2023	4	2023
Release 2.0.9.5	2	2024	4	2024
Release 2.1.0.0	2	2025	4	2025
Release 2.1.0.5	2	2026	4	2026
Release 2.1.1.0	2	2027	4	2027
Release 2.1.1.5	2	2028	4	2028
Release 2.1.2.0	2	2029	4	2029
Contract Award, Release 2.0.8.5	1	2023	1	2023
Contract Award, Release 2.0.9.0	1	2024	1	2024
Contract Award, Release 2.0.9.5	1	2025	1	2025
Contract Award, Release 2.1.0.0	1	2026	1	2026
Contract Award, Release 2.1.0.5	1	2027	1	2027
Contract Award, Release 2.1.1.0	1	2028	1	2028
Contract Award, Release 2.1.1.5	1	2029	1	2029
Development: Software Code & Integration: Release 2.0.8.5	1	2023	3	2023
Development: Software Code & Integration: Release 2.0.9.0	1	2024	3	2024
Development: Software Code & Integration: Release 2.0.9.5	1	2025	3	2025
Development: Software Code & Integration: Release 2.1.0.0	1	2026	3	2026
Development: Software Code & Integration: Release 2.1.0.5	1	2027	3	2027
Development: Software Code & Integration: Release 2.1.1.0	1	2028	3	2028
Development: Software Code & Integration: Release 2.1.1.5	1	2029	3	2029

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 3167 / *Joint Technical Data Integration (JTDI)*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
DT&E: Developmental Test & Evaluation: Release 2.0.8.5	3	2023	4	2023
DT&E: Developmental Test & Evaluation: Release 2.0.9.0	3	2024	4	2024
DT&E: Developmental Test & Evaluation: Release 2.0.9.5	3	2025	4	2025
DT&E: Developmental Test & Evaluation: Release 2.1.0.0	3	2026	4	2026
DT&E: Developmental Test & Evaluation: Release 2.1.0.5	3	2027	4	2027
DT&E: Developmental Test & Evaluation: Release 2.1.1.0	1	2028	4	2028
DT&E: Developmental Test & Evaluation: Release 2.1.1.5	1	2029	4	2029
DT&E: Engineering Change Package: Release 2.0.8.5	4	2023	4	2023
DT&E: Engineering Change Package: Release 2.0.9.0	4	2024	4	2024
DT&E: Engineering Change Package: Release 2.0.9.5	4	2025	4	2025
DT&E: Engineering Change Package: Release 2.1.0.0	4	2026	4	2026
DT&E: Engineering Change Package: Release 2.1.0.5	4	2027	4	2027
DT&E: Engineering Change Package: Release 2.1.1.0	4	2028	4	2028
DT&E: Engineering Change Package: Release 2.1.1.5	4	2023	4	2023
MAL-EIT				
Acquisition Milestone: Contract Award: Contract Award (11)	1	2023	1	2023
Acquisition Milestone: Contract Award: Contract Award (12)	1	2024	1	2024
Acquisition Milestone: Contract Award: Contract Award (13)	1	2025	1	2025
Acquisition Milestone: Contract Award: Contract Award (14)	1	2026	1	2026
Acquisition Milestone: Contract Award: Contract Award (15)	1	2027	1	2027
Acquisition Milestone: Contract Award: Contract Award (16)	1	2028	1	2028
Acquisition Milestone: Contract Award: Contract Award (17)	1	2029	1	2029
Acquisition Milestone: Software Development: Software Development (6)	3	2023	4	2024
Acquisition Milestone: Software Development: Software Development (7)	3	2025	4	2025
Acquisition Milestone: Software Development: Software Development (8)	1	2026	2	2026

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 3167 / *Joint Technical Data Integration (JTDI)*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Acquisition Milestone: Software Development: Software Development (9)	1	2027	4	2027
Acquisition Milestone: Software Development: Software Development (10)	3	2028	3	2029
Test & Evaluation: Technical Evaluation DT&E/OT&E: Technical Evaluation DT&E/ OT&E (7)	3	2024	4	2024
Test & Evaluation: Technical Evaluation DT&E/OT&E: Technical Evaluation DT&E/ OT&E (8)	3	2026	3	2026
Test & Evaluation: Technical Evaluation DT&E/OT&E: Technical Evaluation DT&E/ OT&E (9)	3	2027	3	2027
Test & Evaluation: Technical Evaluation DT&E/OT&E: Technical Evaluation DT&E/ OT&E (10)	3	2028	3	2028
Test & Evaluation: Technical Evaluation DT&E/OT&E: Technical Evaluation DT&E/ OT&E (11)	3	2029	3	2029
Test & Evaluation: Limited Fielding: Limited Fielding (6)	4	2024	1	2025
Test & Evaluation: Limited Fielding: Limited Fielding (7)	3	2026	3	2026
Test & Evaluation: Limited Fielding: Limited Fielding (8)	3	2027	3	2027
Test & Evaluation: Limited Fielding: Limited Fielding (9)	3	2028	3	2028
Test & Evaluation: Limited Fielding: Limited Fielding (10)	3	2029	3	2029
Deliveries: Fielding/Deloyment: Fielding/Deployment (4)	2	2023	3	2023
Deliveries: Fielding/Deloyment: Fielding/Deployment (5)	2	2025	3	2025
Deliveries: Fielding/Deloyment: Fielding/Deployment (6)	4	2026	4	2026
Deliveries: Fielding/Deloyment: Fielding/Deployment (7)	4	2027	4	2027
Deliveries: Fielding/Deloyment: Fielding/Deployment (8)	4	2028	4	2028
Deliveries: Fielding/Deloyment: Fielding/Deployment (9)	4	2029	4	2029
Deliveries: Full Operating Capability: Full Operating Capability (5)	4	2023	4	2023
Deliveries: Full Operating Capability: Full Operating Capability (6)	4	2025	4	2025
Deliveries: Full Operating Capability: Full Operating Capability (7)	4	2026	4	2026
Deliveries: Full Operating Capability: Full Operating Capability (8)	4	2027	4	2027

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 3167 / *Joint Technical Data Integration (JTDI)*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Deliveries: Full Operating Capability: Full Operating Capability (9)	4	2028	4	2028
Deliveries: Full Operating Capability: Full Operating Capability (10)	4	2029	4	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605013N / *Information Technology Development*	Project (Number/Name) 3185 / *Joint Airlift Information System (JALIS)*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
3185: *Joint Airlift Information System (JALIS)*	3.667	0.456	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4.123
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

JALIS is an operational scheduling and aircraft management system that facilitates real-time data analysis. JALIS is a critical element in the management of DoD air logistics assets. JALIS allows:

(1) DoD Service Personnel to submit airlift requirements for DoD Personnel and cargo
(2) Air Logistics Flying Units to communicate their aircraft availability in a real-time graphic display
(3) Designated Scheduling Organizations to compare airlift requirements with available aircraft
(4) Designated Scheduling Organizations to create mission assignments

JALIS informs applicable users of mission details and modifications by using a combination of system displays and email updates. JALIS is geographically distributed and has a user base in excess of 4,000 members. JALIS facilitates the movement of thousands of DoD Personnel and tons of cargo annually in support of the following:

(1) Navy Unique Fleet Essential Airlift
(2) Army's Operational Support Airlift Agency (OSAA)
(3) United States Transportation Command (USTRANSCOM)
(4) United States Marine Corps (USMC)

The Joint Chiefs of Staff mandates JALIS as the official DoD Airlift scheduling system for Operational Support Airlift (OSA). JALIS meets the requirement for multi-service coordinated Air Logistics scheduling as directed by Chairman, Joint Chiefs of Staff. The Navy is designated as lead agency for sponsoring and funding the JALIS program.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Joint Air Logistic Information System (JALIS)	0.456	0.000	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2024 Plans: N/A					
FY 2025 Base Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 3185 / *Joint Airlift Information System (JALIS)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
N/A ***FY 2025 OCO Plans:*** N/A					
Accomplishments/Planned Programs Subtotals	0.456	0.000	0.000	0.000	0.000

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

As a general rule, IT development programs use an agile software development methodology therefore milestones, tasks and phases are often conducted in parallel vice sequentially.

Contract activities will focus on developing the following capabilities:

(1) Improved functionality for flight scheduling
(2) Improved coordination between JALIS scheduling organizations
(3) Integration of JALIS and JALIS Dashboard functions

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605013N / *Information Technology Development*	Project (Number/Name) 3185 / *Joint Airlift Information System (JALIS)*	

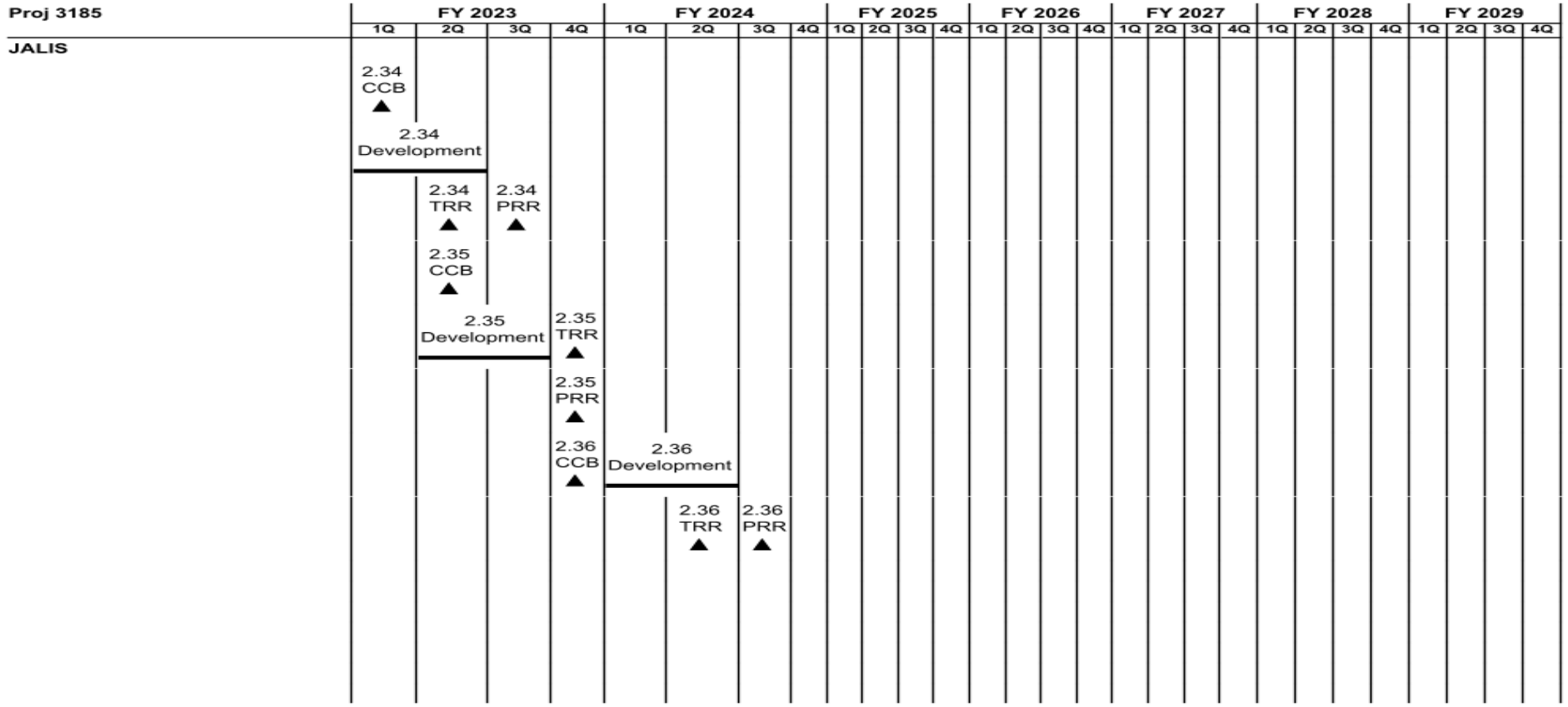
Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Development, Analysis, and QA support	C/CPFF	NAVWAR : New Orleans, LA	3.667	0.456	Jun 2023	0.000		0.000		-		0.000	0.000	4.123	Continuing
		Subtotal	3.667	0.456		0.000		0.000		-		0.000	0.000	4.123	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	3.667	0.456		0.000		0.000		-		0.000	0.000	4.123	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 3185 / *Joint Airlift Information System (JALIS)*



2025DON - 0605013N - 3185

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 3185 / *Joint Airlift Information System (JALIS)*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 3185				
JALIS: JALIS - 2.34 Configuration Control Board	1	2023	1	2023
JALIS: JALIS - 2.34 Development	1	2023	2	2023
JALIS: JALIS - 2.34 Test Readiness Review	2	2023	2	2023
JALIS: JALIS - 2.34 Production Readiness Review	3	2023	3	2023
JALIS: JALIS - 2.35 Configuration Control Board	2	2023	2	2023
JALIS: JALIS - 2.35 Development	2	2023	3	2023
JALIS: JALIS - 2.35 Test Readiness Review	4	2023	4	2023
JALIS: JALIS - 2.35 Production Readiness Review	4	2023	4	2023
JALIS: JALIS - 2.36 Configuration Control Board	4	2023	4	2023
JALIS: JALIS - 2.36 Development	1	2024	2	2024
JALIS: JALIS - 2.36 Test Readiness Review	2	2024	2	2024
JALIS: JALIS - 2.36 Production Readiness Review	3	2024	3	2024

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy											Date: March 2024	
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605013N / *Information Technology Development*				Project (Number/Name) 9406 / *Maintenance Data Warehouse*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
9406: *Maintenance Data Warehouse*	166.786	43.425	45.328	39.644	-	39.644	41.278	41.736	42.601	43.550	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Maintenance Data Warehouse funds the Naval Aviation Enterprise (NAE) components, in coordination with Navy LOG-IT, of digital transformation which is a critical component of improving readiness; giving Navy users access to authoritative truth data and automating inefficient manual processes. It will be executed in a fully agile manner providing continuous fleet readiness improvements across the FYDP. The initial configuration will be supported with an agile Minimal Viable Product (MVP) as the foundation for continuous capability introduction. The Aviation Logistics Environment (ALE) will provide the seamless environment to support the integration of the other capabilities developed in Maintenance Data Warehouse.

Aviation Logistics Environment (ALE) provides the Naval Aviation Enterprise (NAE) components, in coordination with Navy LOG-IT, of digital transformation which is a critical component of improving readiness; giving Navy users access to authoritative truth data and automating inefficient manual processes. It will be executed in a fully agile manner providing continuous fleet readiness improvements across the FYDP. The initial configuration will be supported with an agile Minimal Viable Product (MVP) as the foundation for continuous capability introduction. The Aviation Logistics Environment (ALE) will provide the seamless environment to support the integration of the other capabilities developed in Maintenance Data Warehouse. Aviation Logistics Environment (ALE) provides a global logistics enterprise solution, delivering capabilities via a net-centric, shared data environment that supports shore-based, afloat, and expeditionary operations. ALE consists of three components; Ground Station, Aviation PLM, and Enterprise Service Bus (ESB). The Maintenance Engineering Ground Station for Aviation (MEGA) is the Naval Aviation Type/Model/Series (T/M/S)-agnostic ground station. MEGA is currently under development using Government off-the-Shelf (GOTS) software and PLM/ESB is configuring Commercial off-the-Shelf (COTS). The Aviation Product Lifecycle Management (Aviation PLM) capability will provide the digital thread of aviation logistics data for allowable and as-configured Repair Bill of Materials (R BOM) sustainment, technical bulletins, technical directives and engineering change proposals, and reliability centered maintenance and maintenance planning. The Enterprise Service Bus (ESB) capability will provide the digital backbone for data connections to and from authoritative data sources. ALE consolidates aging, near-end-of-life systems and applications and aligns Information Assurance (IA) and cybersecurity requirements.

Aviation Data Warehouse/Decision Knowledge Programming for Logistics Analysis and Technical Evaluation (DECKPLATE) program is the next generation data warehouse containing over 30 years of aircraft maintenance, flight, components, and usage data. Through the use of web-based, commercial off the shelf software for data load, analysis, query, and reporting tools, the user has the capabilities to effectively obtain readiness data in a near real-time environment, as well as providing historical data for long range planning, trend and records analysis, records reconstruction, and compliance with technical directives. DECKPLATE supports the mission of the warfighter who requires a single source of near real-time aviation data in which to base critical readiness decisions. DECKPLATE collects data from authoritative sources, such as the fleet maintenance systems, into a data warehouse. To provide the warfighter with a common view of Logistics IT data, the time consuming tasks of collecting, extracting, transforming, and loading source data will enable an federated data view that will reduce and ultimately eliminate duplicative and manual processes, while providing visibility and access to trusted data for decision support. This also accomplishes a reduction in legacy systems mandated by Office of the Chief of Naval Operations. DECKPLATE manages total inventory for two major categories of assets, Aircraft (General Equipment) and Engine/Propulsion Systems/

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9406 / *Maintenance Data Warehouse*

Modules (EPSMs) (Operating Materials & Supply). DECKPLATE is comprised of the transactional Aircraft Inventory and Readiness Reporting (DECK-AIRRS) and the Engine Transaction Reporting (DECK-ETR) subsystems which provide the complete lifecycle for aircraft and Engine/ Propulsion System/Modules (EPSMs). DECKPLATE has been identified as a level 1 financial feeder system due to the value of the aircraft and EPSM's managed in the system, and continues to respond to audit compliance and Cyber Security mandates. DECKPLATE is a core feeder system to numerous NAVAIR efforts.

Condition Based Maintenance Plus (CBM+) solution is an initiative which provides Naval Aviation Enterprise with common enabling capabilities which deliver timely data-driven, decisional information to optimize aircraft availability and materiel readiness by incorporating health and usage leading indicators into the failure mode mitigation process, enabling the Warfighter to more efficiently meet mission requirements through automated analysis and decision making processes. The CBM + initiative increases readiness through streamlined maintenance processes which provide the sustainment base with timely, actionable logistics/engineering data and integrated analytics not previously available, enabling engineers and acquisition professionals to support system improvements based on CBM+ technologies, acquired data, and business process integration of analytic results. CBM+ provides the enabling infrastructure and storage solutions within an Enterprise common environment needed to store and analyze weapon system sensor data to extend the life of current and new acquisition aircraft, realizing savings from reductions in field (organizational and intermediate) maintenance actions, reduced functional check flight hours, mishap mitigation, and reduced parts usage.

Vector supports the development of a common logistics analytical tool suite which provides a single view of data and insights focused on aircraft readiness, maintenance, supply, cost, and man-hours. Vector provides naval aviation with a common view of approved key performance metrics and the capability to perform multi-system analysis of Ready for Tasking (RFT)/Ready Basic Aircraft (RBA) Gap drivers, 'Top-Down' aircraft systems analysis down to the component level. Vector identifies system performance trends early to mitigate future readiness and cost impacts to the fleet. This is critical for fleet understanding of readiness degraders and issue resolution.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Aviation Data Warehouse/Decision Knowledge Programming for Logistics Analysis and Technical Evaluation (DECKPLATE)	4.729	4.823	4.855	0.000	4.855
Articles:	-	-	-	-	-
FY 2024 Plans: Continue development supporting financial management requirements for the DECKPLATE financial feeder subsystems, Engine Management and Aircraft Inventory Readiness and Reporting System (AIRRS), required to comply with Financial Management and Comptroller (FM&C) audits; Continue development and enhancements as a result of Naval Aviation Maintenance Program (NAMP) policy changes, and emerging fleet and cyber security requirements. Continue alignment with Digital Transformation Plan (DTP), Logistics IT modernization Lines of Effort and application rationalization; implement data extract and exchange procedures with the Naval Maintenance Repair and Overhaul (N-MRO), Naval Product Lifecycle Management (N-PLM), and Naval Supply Chain Management (N-SCM) as an enabling component of the Logistics IT Information Domain Integrated Data Environment, and fully align and integrate with DON Jupiter and DOD Advana Environments. Implement					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9406 / *Maintenance Data Warehouse*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
NMRO / IDE data ingest and interface processes to enable the federation of Logistics IT data, while maintaining NAMP compliance throughout the roll-out of NMRO in support of DECKPLATE transactional systems AIRRS, Engine Management and Technical Directives Reporting System (TDRS); Cloud integration and capability enablement will continue with DECKPLATE and other key Logistics IT Lines of Effort and NAVAIR data analytics initiatives, including Joint Technical Data Integration (JTDI), NAVAIR Standard Data Repository, Common FRACAS Tool (CFT), Aviation Logistics Environment (ALE), Product Life Cycle (PLM) Management, NMRO in support of Navy Digital Transformation efforts. ***FY 2025 Base Plans:*** Continue development supporting financial management requirements for the DECKPLATE financial feeder subsystems, Engine Management and Aircraft Inventory Readiness and Reporting System (AIRRS), required to comply with Financial Management and Comptroller (FM&C) audits; Continue development and enhancements as a result of Naval Aviation Maintenance Program (NAMP) policy changes, and emerging fleet and cyber security requirements. Continue alignment with Digital Transformation Plan (DTP), Logistics IT modernization Lines of Effort and application rationalization; implement data extract and exchange procedures with the Naval Maintenance Repair and Overhaul (N-MRO), Naval Product Lifecycle Management (N-PLM), and Naval Supply Chain Management (N-SCM) as an enabling component of the Logistics IT Information Domain Integrated Data Environment, and fully align and integrate with DON Jupiter and DOD Advana Environments. Implement NMRO / IDE data ingest and interface processes to enable the federation of Logistics IT data, while maintaining NAMP compliance throughout the roll-out of NMRO in support of DECKPLATE transactional systems AIRRS, Engine Management and Technical Directives Reporting System (TDRS); Cloud integration and capability enablement will continue with DECKPLATE and other key Logistics IT Lines of Effort and NAVAIR data analytics initiatives, including Joint Technical Data Integration (JTDI), NAVAIR Standard Data Repository, Common FRACAS Tool (CFT), Aviation Logistics Environment (ALE), Product Life Cycle (PLM) Management, NMRO in support of Navy Digital Transformation efforts. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 decrease ($0.032M) due to migration of Configuration Management Tool (CMT) the Aviation Logistics Environment (ALE).					
Title: Aviation Logistics Environment (ALE)	36.457	36.217	32.483	0.000	32.483

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9406 / *Maintenance Data Warehouse*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Articles:	-	-	-	-	-
FY 2024 Plans: To continue the Aviation Logistics Environment (ALE) program with limited deployments; (1) System Migration that enables the retirement of legacy logistics IT systems/applications and incorporates the key capabilities for management of Engineering Product Data, end item configuration, deficiency reporting, and technical manuals. Designated Core Functionality Migration/Integration (FMI). (2) Secured Enterprise Solution Licensing to expand user base for Aviation Product Lifecycle Management (AvPLM). (3) Integration with Other Navy Modernization efforts to include Navy MRO & Supply Chain Management at Depot level. Integrated HW and SW baselines for modernization product support.					
FY 2025 Base Plans: Continue the Aviation Logistics Environment (ALE) program with limited deployments; (1) Business Process Re-Engineering enables operational system migration and retirement of legacy Logistics IT systems/applications and ensures core must-have capabilities for the management of Engineering Product Data, end item configuration, deficiency reporting, and technical manuals throughout the lifecycle of a product. (2) Secured Enterprise Solution Licensing to expand the user base for Aviation Product Lifecycle Management (AvPLM). (3) Integration with other Navy Modernization efforts to include Naval MRO, Naval PLM, and Naval Supply Chain Management at the Operational, Intermediate, and Depot level of maintenance. Integrate and migrate modernized solutions to Government Cloud architectures and deploy software baselines to integrate products.					
FY 2025 OCO Plans: N/A					
FY 2024 to FY 2025 Increase/Decrease Statement: FY25 decrease ($3.734M) due to gaining efficiencies with modernization.					
Title: Condition Based Maintenance Plus (CBM+)	0.000	2.003	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2024 Plans: Begin CBM+ Standard Data Repository integration with DoD Cloud Native Services enabling a hybrid-cloud architecture that supports Logistics IT Information Domain Integrated Data Environment (IDE) requirements including continued enhancements to Enhanced Reliability Centered Maintenance (eRCM), CBM+ Actionable Analytics, and Navy Cost Readiness Model (NCRM) cloud implementations. This enabled architecture will					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9406 / *Maintenance Data Warehouse*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
support accelerated Logistics IT data federation and enterprise analytics, while enabling a critical component of the DON reference architecture's cross-information domain IDE. ***FY 2025 Base Plans:*** N/A ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 decrease ($2.003M) due to development completion.					
Title: Vector	2.239	2.285	2.306	0.000	2.306
Articles:	-	-	-	-	-
FY 2024 Plans: Continue migration to DoD Cloud Native Services, micro-services Continuous Integration / Continuous Deployment (CI/CD) development, and integration with the Logistics IT Integrated Data Environment (IDE). Implement connections with the Logistics IT Enterprise Service Bus (ESB), consolidate custom coded Vector dashboards into enterprise Commercial Off-the-Shelf Business Intelligence solutions. ***FY 2025 Base Plans:*** Continue migration to DoD Cloud Native Services, micro-services Continuous Integration / Continuous Deployment (CI/CD) development and implement connections with Logistics IT Enterprise data sources with the Logistics IT Integrated Data Environment (IDE). Consolidate custom coded Vector dashboards into enterprise Commercial Off-the-Shelf Business Intelligence solutions. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY25 increase ($0.021M) supports new LOG-IT capability requirements for Vector Cloud Services software development.					
Accomplishments/Planned Programs Subtotals	43.425	45.328	39.644	0.000	39.644

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9406 / *Maintenance Data Warehouse*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• OPN/4268/DECKPLATE: *Other Aviation Support Equipment*	2.342	2.385	2.415	-	2.415	2.483	2.532	2.593	2.647	Continuing	Continuing
• OPN/4268/CBM: *Other Aviation Support Equipment*	0.301	0.306	0.312	-	0.312	0.320	0.327	0.334	0.342	Continuing	Continuing

Remarks

DECKPLATE and CBM funds are only a portion of OPN Line Item 4268.

D. Acquisition Strategy

The management approach includes the Logistics IT Portfolio Management Office residing in NAVAIR as part of Program Executive Office for Aviation Common Systems and Commercial Services.

Aviation Data Warehouse/Decision Knowledge Programming for Logistics Analysis and Technical Evaluation (DECKPLATE) -
Development services will be performed under a competitively awarded contract. The task order contains a matrix of tasks and required levels of performance. Follow on contracts will utilize the same competitive system. The services provided under the contract support acquisition will not encompass tasks inherently Governmental in nature. The Statement of Work includes a matrix that establishes the minimum acceptable performance standards.

Condition Based Maintenance Plus (CBM+) - Development will be provided using competitively awarded contracts coordinated via NAVAIR's Aviation Logistics Environment (ALE) Program Management and supporting Contract Business Office, and will contain a matrix of tasks and required levels of performance. Follow on Contracts will utilize the same competitive system. The Services provided under the contract support acquisition will not encompass tasks inherently Governmental in nature, and Statements of Work will include a matrix that establishes the minimum acceptable performance standards.

Aviation Logistics Environment (ALE)- Development services will be awarded using a competitively awarded contract that will contain a matrix of tasks and required levels of performance. Follow on contracts will also follow the same competitive system. The Services provided under the contract support acquisitions will not encompass tasks inherently Governmental in nature and the Statements of Work will include a matrix that establishes the minimum acceptable performance standards.

Vector Software - Development services will be performed under a competitively awarded Cyber Security (CS) Contract. Follow on Contracts will utilize the same competitive system. The Services provided under the contract support acquisitions will not encompass tasks inherently governmental in nature. The Statements of Work will include a matrix that establishes the minimum acceptable performance standards.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9406 / *Maintenance Data Warehouse*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Prior year Prod Def no longer funded in the FYDP	Various	Various : Various	35.454	0.000		0.000		0.000		-		0.000	0.000	35.454	-
Development for Aviation Logistics Environment (ALE)	Various	Various : Various	58.958	21.993	Feb 2023	25.280	Feb 2024	21.402	Feb 2025	-		21.402	Continuing	Continuing	Continuing
Development for Condition Based Maintenance Plus (CBM+)	C/CPFF	KBR : Patuxent River, MD	21.404	0.000		1.248	Dec 2023	0.000		-		0.000	0.000	22.652	-
Development for Vector	C/CPFF	KBR : Patuxent River, MD	2.752	1.256	Dec 2022	0.000		0.000		-		0.000	0.000	4.008	-
Development for Vector	C/CPFF	Spalding : Lexington Park, MD	0.439	0.150	Jun 2023	1.725	Dec 2023	1.747	Jun 2025	-		1.747	Continuing	Continuing	Continuing
Development for Decision Knowledge Programming for Logistics Analysis and Technical Evalutaion (DECKPLATE)	C/CPFF	KBR : Patuxent River, MD	0.751	0.247	Dec 2022	0.283	Dec 2023	0.000		-		0.000	0.000	1.281	-
Development for Aviation Logistics Environment (ALE)	C/CPFF	KBR : Patuxent River, MD	6.567	4.255	Jan 2023	0.000		0.000		-		0.000	0.000	10.822	-
Development for Vector	C/FFP	Cyber Analytics : Patuxent River, MD	0.146	0.235	Feb 2023	0.000		0.000		-		0.000	0.000	0.381	-
Development for Aviation Logistics Environment (ALE) Ground Station	C/CPFF	Redstone : Huntsville, AL	4.457	2.550	Jun 2023	2.951	Jun 2024	3.019	Jun 2025	-		3.019	Continuing	Continuing	Continuing
Development for Decision Knowledge Programming for Logistics Analysis and Technical Evalutaion (DECKPLATE)	C/CPFF	Spalding : Lexington Park, MD	0.000	2.798	Dec 2022	3.156	Mar 2024	3.890	Jun 2025	-		3.890	Continuing	Continuing	Continuing
		Subtotal	130.928	33.484		34.643		30.058		-		30.058	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9406 / *Maintenance Data Warehouse*

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support for DECKPLATE	WR	NAWCAD : Patuxent River, MD	10.832	1.684	Oct 2022	1.384	Oct 2023	0.965	Oct 2024	-		0.965	Continuing	Continuing	Continuing
Prior year Prod Def no longer funded in the FYDP	Various	Various : Various	1.313	0.000		0.000		0.000		-		0.000	0.000	1.313	-
Program Management Support for CBM+	WR	NAWCAD : Patuxent River, MD	4.241	0.000		0.757	Oct 2023	0.000		-		0.000	0.000	4.998	-
Program Management Support for Aviation Logistics Environment (ALE)	WR	NAWCAD : Patuxent River, MD	8.455	1.585	Oct 2022	1.707	Oct 2023	1.657	Oct 2024	-		1.657	Continuing	Continuing	Continuing
Program Management Support for Vector	WR	NAWCAD : Patuxent River, MD	1.013	0.485	Oct 2022	0.558	Oct 2023	0.559	Oct 2024	-		0.559	Continuing	Continuing	Continuing
Program Management Support for Vector	C/CPFF	KBR : Patuxent River, MD	0.340	0.113	Dec 2022	0.000		0.000		-		0.000	0.000	0.453	-
Program Management Support for Aviation Logistics Environment (ALE)	WR	NAWCWD : China Lake, CA	0.000	0.112	Oct 2022	0.000		0.000		-		0.000	0.000	0.112	-
Program Management Support for Aviation Logistics Environment (ALE)	C/CPFF	KBR : Patuxent River, MD	4.165	2.039	Feb 2023	2.185	Oct 2023	2.229	Oct 2024	-		2.229	Continuing	Continuing	Continuing
Program Management Support for Aviation Logistics Environment (ALE)	C/CPFF	Booz Allen Hamilton : Patuxent River, MD	3.263	1.625	Feb 2023	0.000		0.000		-		0.000	0.000	4.888	-
Program Management Support for Aviation Logistics Environment (ALE)	WR	Fleet Readiness Center Mid Atlantic : Patuxent River, MD	1.275	1.231	Oct 2022	1.559	Oct 2023	1.590	Oct 2024	-		1.590	Continuing	Continuing	Continuing
Program Management Support for Aviation Logistics Environment (ALE)	WR	NAVWAR : San Diego, CA	0.961	1.067	Oct 2022	0.928	Oct 2023	0.947	Oct 2024	-		0.947	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9406 / *Maintenance Data Warehouse*

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support for Aviation Logistics Environment (ALE)	Various	Various : Various	0.000	0.000		1.607	Oct 2023	1.639	Oct 2024	-		1.639	Continuing	Continuing	Continuing
		Subtotal	35.858	9.941		10.685		9.586		-		9.586	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	166.786	43.425		45.328		39.644		-		39.644	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9406 / *Maintenance Data Warehouse*

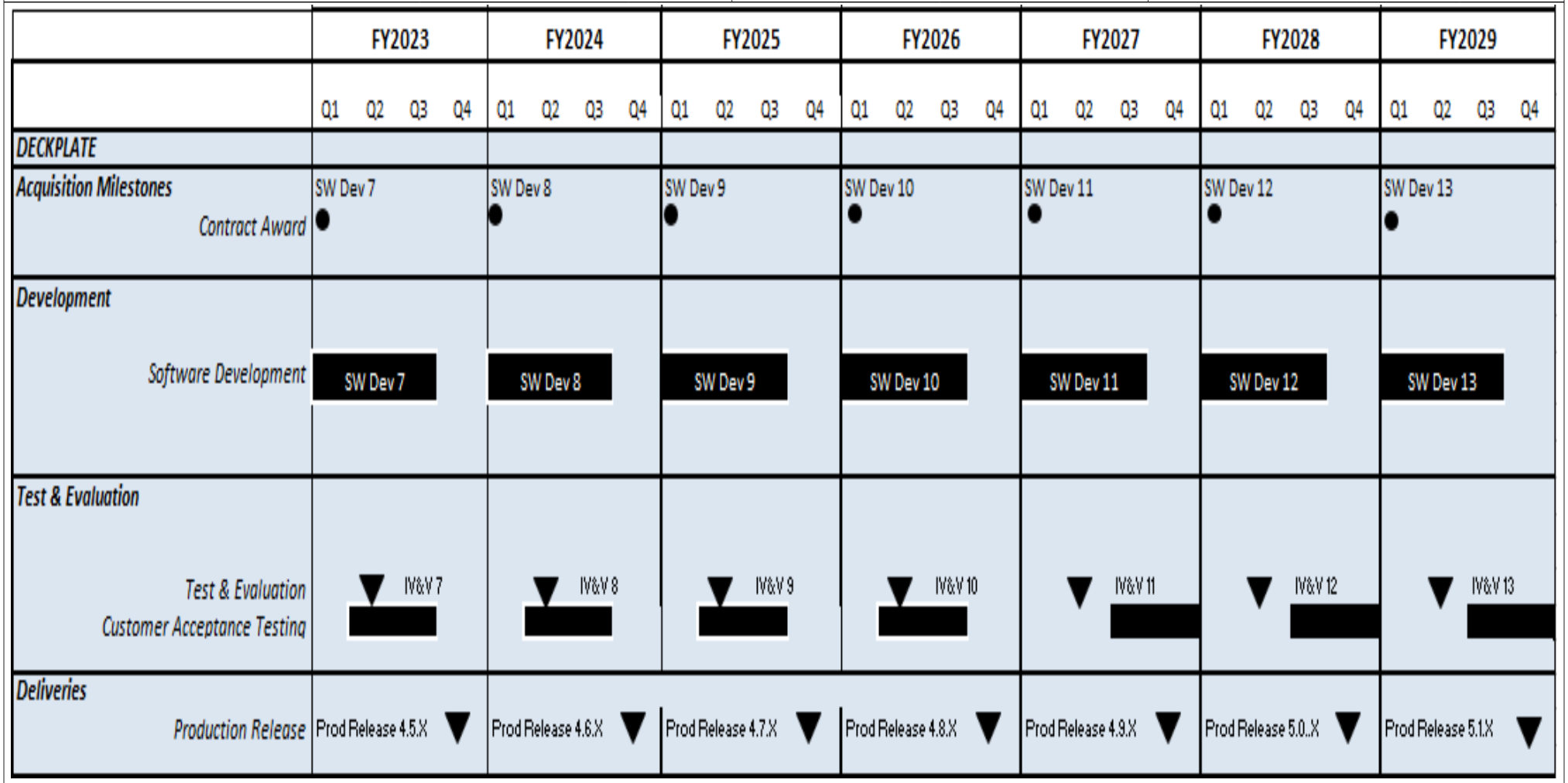


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9406 / *Maintenance Data Warehouse*

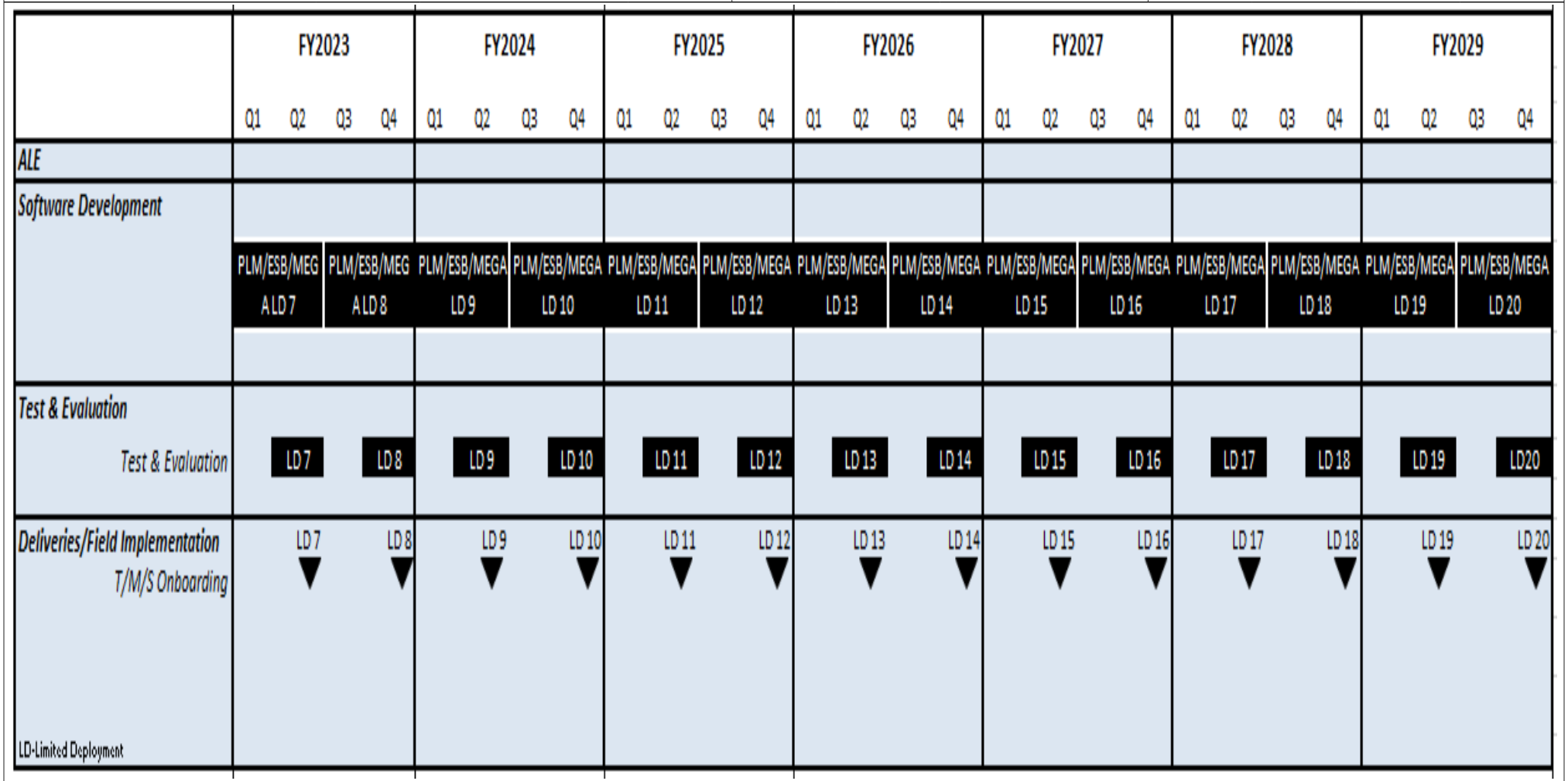


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9406 / *Maintenance Data Warehouse*

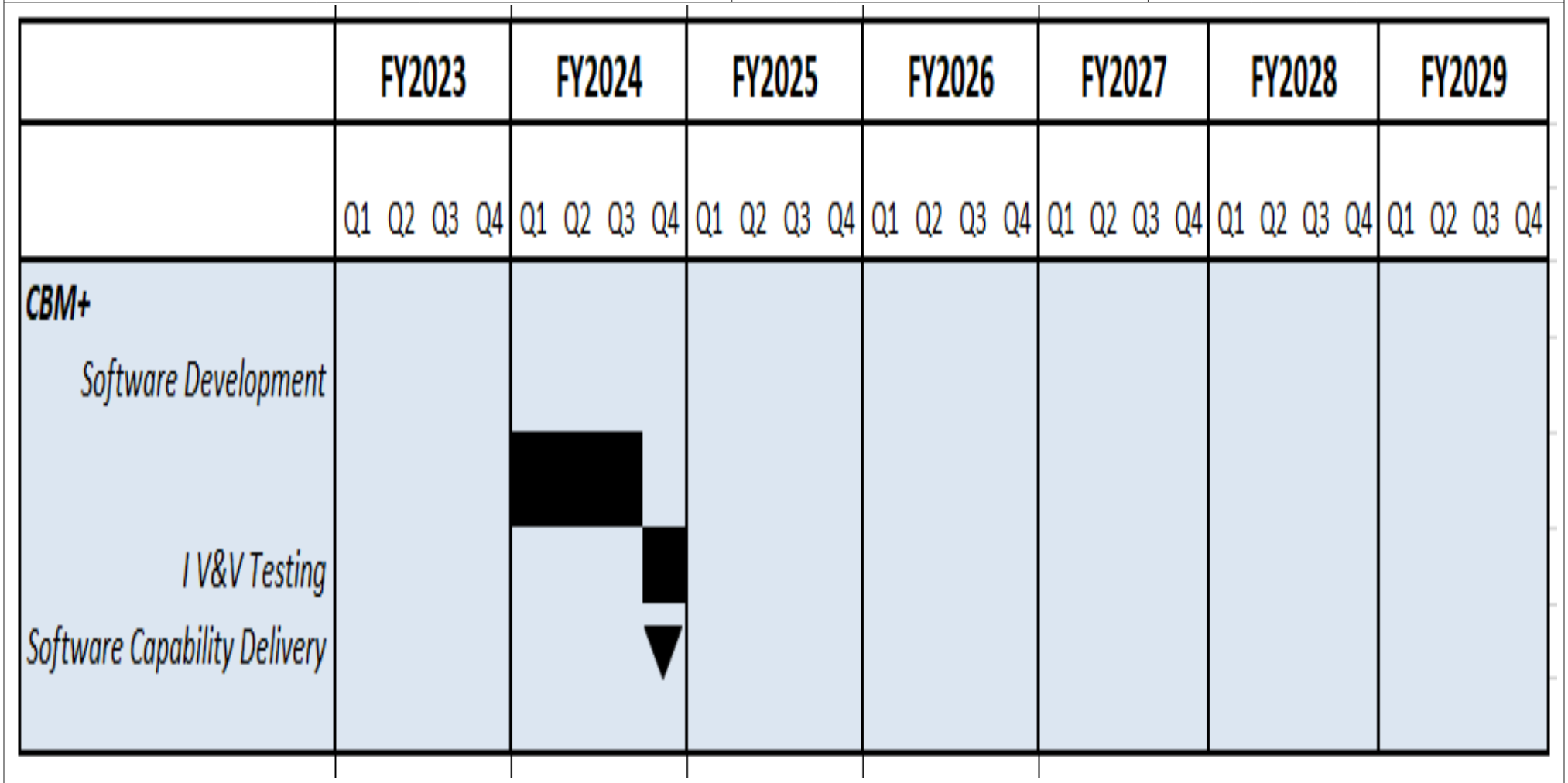


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9406 / *Maintenance Data Warehouse*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
DECKPLATE IT EXXCOMM Portfolio Consolidation				
Systems Development: Software Development: Contract Award 7	1	2023	1	2023
Systems Development: Software Development: Requirements and Design 7	1	2023	2	2023
Systems Development: Software Development: Software Development and Design: (IT Labor/HW/ Hosting/Licensing) 7	1	2023	3	2023
Systems Development: Software Development: Contract Award 8	1	2024	1	2024
Systems Development: Software Development: Requirements and Design 8	1	2024	2	2024
Systems Development: Software Development: Schedule Detail Softwware Development and Sesing (IT Labor/HW/Hosting Licensing) 8	1	2024	3	2024
Systems Development: Software Development: Contract Award 9	1	2025	1	2025
Systems Development: Software Development: Requirements and Design 9	1	2025	3	2025
Systems Development: Software Development: Schedule Detail Software Development and Design: (IT Labor/HW/ Hosting/Licensing) 9	1	2025	3	2025
Systems Development: Software Development: Contract Award 10	1	2026	1	2026
Systems Development: Software Development: Requirements and Design 10	1	2026	3	2026
Systems Development: Software Development: Schedule Detail Software Development and Design: (IT Labor/HW/ Hosting/Licensing) 10	1	2026	3	2026
Systems Development: Software Development: Contract Award 11	1	2027	1	2027
Systems Development: Software Development: Requirements and Design 11	1	2027	3	2027
Systems Development: Software Development: Schedule Detail Software Development and Design: (IT Labor/HW/ Hosting/Licensing) 11	1	2027	3	2027
Systems Development: Software Development: Contract Award 12	1	2028	1	2028
Systems Development: Software Development: Schedule Detail Software Development and Design: (IT Labor/HW/ Hosting/Licensing) 12	1	2028	3	2028

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9406 / *Maintenance Data Warehouse*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Systems Development: Software Development: Requirements and Design 12	1	2028	3	2028
Systems Development: Software Development: Contract Award 13	1	2029	1	2029
Systems Development: Software Development: Schedule Detail Software Development and Design: (IT Labor/HW/ Hosting/Licensing) 13	1	2029	3	2029
Systems Development: Software Development: Requirements and Design 13	1	2029	3	2029
Test & Evaluation: DECKPLATE IV&V Testing 7	2	2023	2	2023
Test & Evaluation: DECKPLATE Customer Acceptance Testing 7	2	2023	3	2023
Test & Evaluation: DECKPLATE IV&V Testing 8	2	2024	2	2024
Test & Evaluation: DECKPLATE Customer Acceptance Testing 8	2	2024	3	2024
Test & Evaluation: DECKPLATE IV&V Testing 9	2	2025	2	2025
Test & Evaluation: DECKPLATE Customer Acceptance Testing 9	2	2025	3	2025
Test & Evaluation: DECKPLATE IV&V Testing 10	2	2026	2	2026
Test & Evaluation: DECKPLATE Customer Acceptance Testing 10	2	2026	3	2026
Test & Evaluation: DECKPLATE IV&V Testing 11	2	2027	2	2027
Test & Evaluation: DECKPLATE Customer Acceptance Testing 11	3	2027	4	2027
Test & Evaluation: DECKPLATE IV&V Testing 12	2	2028	2	2028
Test & Evaluation: DECKPLATE Customer Acceptance Testing 12	3	2028	4	2028
Test & Evaluation: DECKPLATE IV&V Testing 13	2	2029	2	2029
Test & Evaluation: DECKPLATE Customer Acceptance Testing 13	3	2029	4	2029
Deliveries: DECKPLATE Production Release Delivery 4.5.X	4	2023	4	2023
Deliveries: DECKPLATE Production Release Delivery 4.6.X	4	2024	4	2024
Deliveries: DECKPLATE Production Release Delivery 4.7.X	4	2025	4	2025
Deliveries: DECKPLATE Production Release Delivery 4.8.X	4	2026	4	2026
Deliveries: DECKPLATE Production Release Delivery 4.9.X	4	2027	4	2027
Deliveries: DECKPLATE Production Release Delivery 5.0.X	4	2028	4	2028
Deliveries: DECKPLATE Production Release Delivery 5.1.X	4	2029	4	2029

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9406 / *Maintenance Data Warehouse*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Condition Based Maintenance Plus (CBM+)				
Systems Development: Software Development: CBM+ Requirements Development 9	1	2024	4	2024
Systems Development: Test and Evaluation: CBM+ IV&V Testing	4	2024	4	2024
Systems Development: Deliveries: CBM+ Software Capability Delivery	4	2024	4	2024
Aviation Logistics Environment (ALE)				
Software Development: PLM Solution/ESB/MEGA Limited Deployment 7	1	2023	2	2023
Software Development: PLM Solution/ESB/MEGA Limited Deployment 8	3	2023	4	2023
Software Development: PLM Solution/ESB/MEGA Limited Deployment 9	1	2024	2	2024
Software Development: PLM Solution/ESB/MEGA Limited Deployment 10	3	2024	4	2024
Software Development: PLM Solution/ESB/MEGA Limited Deployment 11	1	2025	2	2025
Software Development: PLM Solution/ESB/MEGA Limited Deployment 12	3	2025	4	2025
Software Development: PLM Solution/ESB/MEGA Limited Deployment 13	1	2026	2	2026
Software Development: PLM Solution/ESB/MEGA Limited Deployment 14	3	2026	4	2026
Software Development: PLM Solution/ESB/MEGA Limited Deployment 15	1	2027	2	2027
Software Development: PLM Solution/ESB/MEGA Limited Deployment 16	3	2027	4	2027
Software Development: PLM Solution/ESB/MEGA Limited Deployment 17	1	2028	2	2028
Software Development: PLM Solution/ESB/MEGA Limited Deployment 18	3	2028	4	2028
Software Development: PLM Solution/ESB/MEGA Limited Deployment 19	1	2029	2	2029
Software Development: PLM Solution/ESB/MEGA Limited Deployment 20	3	2029	4	2029
Test and Evaluation: LD 7 Test and Evaluation	2	2023	2	2023
Test and Evaluation: LD 8 Test and Evaluation	4	2023	4	2023
Test and Evaluation: LD 9 Test and Evaluation	2	2024	2	2024
Test and Evaluation: LD 10 Test and Evaluation	4	2024	4	2024
Test and Evaluation: LD 11 Test and Evaluation	2	2025	2	2025
Test and Evaluation: LD 12 Test and Evaluation	4	2025	4	2025

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9406 / *Maintenance Data Warehouse*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Test and Evaluation: LD 13 Test and Evaluation	2	2026	2	2026
Test and Evaluation: LD 14 Test and Evaluation	4	2026	4	2026
Test and Evaluation: LD 15 Test and Evaluation	2	2027	2	2027
Test and Evaluation: LD 16 Test and Evaluation	4	2027	4	2027
Test and Evaluation: LD 17 Test and Evaluation	2	2028	2	2028
Test and Evaluation: LD 18 Test and Evaluation	4	2028	4	2028
Test and Evaluation: LD 19 Test and Evaluation	2	2029	2	2029
Test and Evaluation: LD 20 Test and Evaluation	4	2029	4	2029
Implementation: Implementation: T/M/S Onboarding LD 7	2	2023	2	2023
Implementation: Implementation: T/M/S Onboarding LD 8	4	2023	4	2023
Implementation: Implementation: T/M/S Onboarding LD 9	2	2024	2	2024
Implementation: Implementation: T/M/S Onboarding LD 10	4	2024	4	2024
Implementation: Implementation: T/M/S Onboarding LD 11	2	2025	2	2025
Implementation: Implementation: T/M/S Onboarding LD 12	4	2025	4	2025
Implementation: Implementation: T/M/S Onboarding LD 13	2	2026	2	2026
Implementation: Implementation: T/M/S Onboarding LD 14	4	2026	4	2026
Implementation: Implementation: T/M/S Onboarding LD 15	2	2027	2	2027
Implementation: Implementation: T/M/S Onboarding LD 16	4	2027	4	2027
Implementation: Implementation: T/M/S Onboarding LD 17	2	2028	2	2028
Implementation: Implementation: T/M/S Onboarding LD 18	4	2028	4	2028
Implementation: Implementation: T/M/S Onboarding LD 19	2	2029	2	2029
Implementation: Implementation: T/M/S Onboarding LD 20	4	2029	4	2029
Vector				
System Development: Software Development 5	1	2023	3	2023
System Development: Software Development 6	1	2024	3	2024

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9406 / *Maintenance Data Warehouse*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
System Development: Software Development 7	1	2025	3	2025
System Development: Software Development 8	1	2026	3	2026
System Development: Software Development 9	1	2027	3	2027
System Development: Software Development 10	1	2028	3	2028
System Development: Software Development 11	1	2029	3	2029
Test and Evaluation: I V&V Testing 5	4	2023	4	2023
Test and Evaluation: I V&V Testing 6	4	2024	4	2024
Test and Evaluation: I V&V Testing 7	4	2025	4	2025
Test and Evaluation: I V&V Testing 8	4	2026	4	2026
Test and Evaluation: I V&V Testing 9	4	2027	4	2027
Test and Evaluation: I V&V Testing 10	4	2028	4	2028
Test and Evaluation: I V&V Testing 11	4	2029	4	2029
Deliveries: Software Capability Delivery 5 (JSF, Unmanned Aircraft Analytics Initial Deployment)	4	2023	4	2023
Deliveries: Software Capability Delivery 6 (Joint Navy / Air Force Data Analytics, Commercial Off-the-Shelf Business Intelligence Expanded Capabilities))	4	2024	4	2024
Deliveries: Software Capability Delivery 7 Software Analytic Capabilites	4	2025	4	2025
Deliveries: Software Capability Delivery 8 Software Analytic Capabilites	4	2026	4	2026
Deliveries: Software Capability Delivery 9 (Software Analytic Capabilities)	4	2027	4	2027
Deliveries: Software Capability Delivery 10 (Software Analytic Capabilities)	4	2028	4	2028
Deliveries: Software Capability Delivery 11 (Software Analytic Capabilities)	4	2029	4	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy											Date: March 2024	
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605013N / *Information Technology Development*				Project (Number/Name) 9999 / *Congressional Adds*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
9999: *Congressional Adds*	71.906	27.064	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	98.970
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

C599 - There is a misspelling in the Accomplishment name. Solutions vice Soutions.

A. Mission Description and Budget Item Justification

CONDITION BASED MAINTENANCE PLUS (CBM+):
The CBM+ solution is an initiative which provides Naval Aviation Enterprise with common enabling capabilities which deliver timely data-driven decisional information to optimize aircraft availability and materiel readiness by incorporating health and usage leading indicators into the failure mode mitigation process, enabling the Warfighter to more efficiently meet mission requirements through automated analysis and decision making processes. The CBM+ Initiative increases readiness through streamlined maintenance processes which provide actionable logistics/engineering data and integrated analytics not previously available, enabling engineers and acquisition professionals to support system improvements based on CBM+ acquired data and analytic results. CBM+ provides the enabling infrastructure and storage solutions within an Enterprise common environment needed to store and analyze weapon system sensor data to extend the life of current and new acquisition aircraft, realizing savings from reductions in field (organizational and intermediate) maintenance actions, reduced functional check flight hours, mishap mitigation, and reduced parts usage.

C777-Aviation Product Lifecycle Management (AvPLM) - Capability provides digital process integration with complete, secure and authoritative data, coordinated as part of approved Navy LOG-IT. AvPLM integrates the product life cycle to provide universal access to authoritative data and workflow automation, enabling configuration management of data, implementation of closed loop quality, and consolidation of engineering products and data. Connecting these processes using standardized digital tools and data accelerates the product development cycle and lowers costs for support and new capability integration. The Digital Thread capability includes development and demonstration of cyber security architectures for sustainment information systems, and development of a digital data product architecture and repository.

C778-Actionable Analytics for reliable maintenance provides the required Logistics Information Technology, data enablement, and Logistics/Engineering/Analytics domain expertise to realize predictive Condition Based Maintenance Plus (CBM+) use cases and business process within an Enterprise common CBM analytics environment to optimize aircraft availability and materiel readiness by incorporating health and usage leading indicators into the failure mode mitigation process, enabling the Warfighter to more efficiently meet mission requirements. The CBM+ analytics environment automates required maintenance, aircraft Health Monitoring System (HMS) sensor, and supporting data collection, storage, integration, and analysis capabilities across the Naval Aviation Enterprise, leveraging the integration of large scale on-premises, in cloud, and at edge Log IT solutions for proactive CBM+ data-driven decision support.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9999 / *Congressional Adds*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024
Congressional Add: Warfare mission analysis in cyber contested environment ***FY 2023 Accomplishments:*** Funding will enable further development of flexible cross domain technologies supporting DON warfighting platforms as well as Modeling and Simulation (M&S) capabilities. Supported environments will include but are not limited to the Joint Simulation Environment (JSE) and the Naval Aviation Red Team (AIR-RT) Cyber Mission Operations Center (CMOC). This funding will also enable the procurement and installation of Cyber Red Team and Cyber Planning and Response Center (CPRC) infrastructure to meet the intent of Navy leadership in the standup of those key capabilities. ***FY 2024 Plans:*** N/A	4.827	0.000
Congressional Add: Digital twin development ***FY 2023 Accomplishments:*** Funding will support the development of cyber digital twins for naval aviation warfighting platforms. This funding will also support the development, procurement, and installation of the infrastructure necessary to enable the cyber vulnerability research that the digital twins are being created to support. Finally, cyber vulnerability research will be conducted leveraging these digital twin technologies, providing vulnerabilities and susceptibilities to Program Managers that can ultimately improve naval aviation warfighting readiness, platform survivability, and safety. ***FY 2024 Plans:*** N/A	6.757	0.000
Congressional Add: Broadband network for Navy owned research vessels ***FY 2023 Accomplishments:*** Outdated wireless broadband connectivity on board Navy-owned research vessels inhibits cyber security and limits research capabilities. For research vessels in the South Pacific, research security and cybersecurity are especially important. Funding is needed to update cyberinfrastructure and secure improved broadband connectivity on board America's Research Fleet. In addition to improving research vessel cybersecurity, these updates will revolutionize sea-going research and STEM education opportunities via improved telepresence, teaching at sea, timely sharing of data collections, and ship to shore collaborations. ***FY 2024 Plans:*** N/A	8.000	0.000
Congressional Add: Classified data exchange environment for submarines ***FY 2023 Accomplishments:*** Task Awarded in May 2023 Planning and Pre-work: - Collected robust data sets (build yard) which are representative of the digital engineering ecosystem for COLUMBIA. - Completed technical evaluation of the current state hosting environment and data exchange tools.	2.653	0.000

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9999 / *Congressional Adds*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024
Pilot and Evaluation: - Completed initial prototype of data exchange solution using local on contractor site environment. - This prototype has initiated incorporating feedback into follow on larger scale architecture. ***FY 2024 Plans:*** Pilot and Evaluation (continued): - Expand prototype of data exchange solution to an unclassified representative architecture that mirrors an IL6 environment. - Demonstrate ability to build a COLUMBIA class digital twin. - Perform gap analysis on the initial build and capture in a technical report, including identification of additional scope change/actions required. Configuration Management and Change Notification: - Provide results of Phase 2 to the government, build yard and planning yard to inform program office configuration and change management process codification and establishment of standards. - Coordinate with stakeholders in support of change and configuration management efforts, which may include additional prototypes and experimentation. Elaboration of As-Built Configuration: - Demonstrate the ability of the digital ecosystem to handle as-built product model data including ship specific as-built disclosures and Ship's Drawing Index worthy nonconformance documentation (both incorporated and unincorporated into ship-specific design disclosures). - Recommendation and evaluation of Verification and Validation framework to the greatest extent practicable based on the existence of new construction as built data and changes. - Alternative of Analysis report that incorporates the iterative comparison to enterprise and commercial offerings with respect to the COLUMBIA solution. This comparison of available alternatives will be conducted across all phases during the period of performance.		
Congressional Add: Cyber supply chain risk management ***FY 2023 Accomplishments:*** Funding will support the development of a prototype Cyber Supply Chain Risk Management (C-SCRM) system to illuminate risk within the supply chain down to the individual component level. This will be accomplished through the development of system models utilizing techniques such as Model Based Systems Engineering (MBSE) instead of relying on classic document based approach. Analysis will leverage machine learning algorithms and artificial intelligence. Dashboards will be developed for those weapons systems that are aligned as well as a global dashboard for the Cyber Planning and Response Center. Some systems will	4.827	0.000

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9999 / *Congressional Adds*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024
require the creation of Software or Hardware Bill of Materials, in this case a standard data item description will be developed. This effort utilizes current logistics IT systems and their associated data lakes within an enterprise C-SCRM solution that will allow for sharing of C-SCRM data across platforms, resulting in reductions in cost for each program office and schedule to meet the acquisition timeline. It will also reduce risk across the enterprise by illuminating and preventing cyber vulnerabilities from propagating by sharing vulnerabilities to common critical systems and vendors before they find a way into the Fleet. ***FY 2024 Plans:*** N/A		
Congressional Adds Subtotals	27.064	0.000

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

CONDITION BASED MAINTENANCE PLUS:
Development services will be provided using a competitively awarded contract coordinated via NAVAIR's Aviation Logistics Environment (ALE) Program Management and supporting Contract Business Office, and will contain a matrix of tasks and required levels of performance. Follow on Contracts will utilize the same competitive system. The Services provided under the contract support acquisition will not encompass tasks inherently Governmental in nature, and Statements of Work will include a matrix that establishes the minimum acceptable performance standards.

MODEL BASED PRODUCT SUPPORT (MBPS):
NAVSEA 03R will modernize existing Command Technical Data (CTD), Configuration Management, Readiness and Provisioning / Outfitting logistics information technology systems. The MBPS project will follow a rapid delivery acquisition approach (incremental development and fielding of capabilities) to deliver an integrated and production ready solution.

To date the MBPS Program has released three (3) contracts to support development:

1) Other Transaction Authority (OTA) contract for incremental development to include initial "pick and click" type training
2) Sole source contract awarded to PTC for Software as a Service (SaaS)
3) Phase III SBIR Task Order 2 to Frontier Technology Inc to deliver foundational training execution

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9999 / *Congressional Adds*

A FAR based contract will be awarded in the future to support sustainment. Following Limited deployment (LD) completion, MBPS will be deployed across the Navy enterprise and Full Operational Capability (FOC) established. Following full deployment, MBPS will enter the sustainment period of its lifecycle.

Aviation Product Lifecycle Management (AvPLM)
Development services will be awarded using an existing contract that contains a matrix of tasks and required levels of performance.

Actionable Analytics for reliable maintenance
Development services will be awarded using an existing contract that contains a matrix of tasks and required levels of performance.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605013N / *Information Technology Development*	Project (Number/Name) 9999 / *Congressional Adds*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Technology Refreshment (PLM)	Various	Various : Various	4.150	0.000		0.000		0.000		-		0.000	0.000	4.150	-
Cyber Innovations	Various	Various : Various	2.896	0.000		0.000		0.000		-		0.000	0.000	2.896	-
Cyber Solutions	Various	Various : Various	1.246	0.000		0.000		0.000		-		0.000	0.000	1.246	-
Aviation Innovative Cyber Solutions	Various	Various : Various	1.800	0.000		0.000		0.000		-		0.000	0.000	1.800	-
Actionable Analytics Development	C/CPFF	GSA Aliant : Patuxent River, MD	3.361	0.000		0.000		0.000		-		0.000	0.000	3.361	-
AvPLM Development	C/CPFF	GSA Aliant : Patuxent River, MD	1.931	0.000		0.000		0.000		-		0.000	0.000	1.931	-
Advanced shipyard technologies	Various	Various : Various	4.592	0.000		0.000		0.000		-		0.000	0.000	4.592	-
Cyber Supply Chain Risk Management	Various	Various : Various	0.000	1.500	May 2023	0.000		0.000		-		0.000	0.000	1.500	-
Information Technology Development C895	C/FFP	Beast Code : Fort Walton Beach, FL	0.000	2.653	Sep 2023	0.000		0.000		-		0.000	0.000	2.653	-
Broadband Network	Various	Various : Various	0.000	8.000	Sep 2023	0.000		0.000		-		0.000	0.000	8.000	-
		Subtotal	19.976	12.153		0.000		0.000		-		0.000	0.000	32.129	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
HW/SW (CBM+)	C/FFP	Washington HQ Services : Washington, DC	9.761	0.000		0.000		0.000		-		0.000	0.000	9.761	9.761
Software Development for (CBM+)	C/CPFF	Wyle : Patuxent River, MD	1.700	0.000		0.000		0.000		-		0.000	0.000	1.700	1.700
Systems Engineering (PLM)	WR	NSWC : Philadelphia, PA	0.980	0.000		0.000		0.000		-		0.000	0.000	0.980	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605013N / *Information Technology Development*	Project (Number/Name) 9999 / *Congressional Adds*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering (PLM)	WR	NSWC : Crane, ID	1.664	0.000		0.000		0.000		-		0.000	0.000	1.664	-
Systems Engineering (PLM)	WR	NSWC : Port Hueneme, CA	3.944	0.000		0.000		0.000		-		0.000	0.000	3.944	-
Technical Support (PLM)	Various	Various : Various	2.865	0.000		0.000		0.000		-		0.000	0.000	2.865	-
Systems Engineering (PLM)	WR	NSWC : Carderock, MD	1.180	0.000		0.000		0.000		-		0.000	0.000	1.180	-
Systems Engineering (PLM)	WR	NSWC : Dahlgren, VA	0.730	0.000		0.000		0.000		-		0.000	0.000	0.730	-
Systems Engineering (PLM)	WR	NAVSEALOGCEN : Mechanicsburg, PA	4.368	0.000		0.000		0.000		-		0.000	0.000	4.368	-
		Subtotal	27.192	0.000		0.000		0.000		-		0.000	0.000	27.192	N/A

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support for (CBM+)	WR	NAWCAD : Patuxent River, MD	0.020	0.000		0.000		0.000		-		0.000	0.000	0.020	-
Cyber Solutions Mgmt Support	WR	NAWCAD : Patuxent River, MD	4.736	0.000		0.000		0.000		-		0.000	0.000	4.736	-
Cyber Solutions Mgmt Support	WR	NAWCWD : China Lake, CA	0.450	0.000		0.000		0.000		-		0.000	0.000	0.450	-
Cyber Solutions Mgmt Support	WR	NAWCWD : Point Mugu, CA	0.325	0.000		0.000		0.000		-		0.000	0.000	0.325	-
Aviation Innovative Cyber Solutions Mgmt Spt	WR	NAWCAD : Patuxent River, MD	6.888	0.000		0.000		0.000		-		0.000	0.000	6.888	-
Cyber Soluntions Classified Environ Mgmt Spt	WR	NAWCAD : Patuxent River, MD	5.792	0.000		0.000		0.000		-		0.000	0.000	5.792	-
Warfare Mission Analysis Mgmt Spt	WR	NAWCAD : Patuxent River, MD	4.827	4.827	Feb 2023	0.000		0.000		-		0.000	0.000	9.654	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9999 / *Congressional Adds*

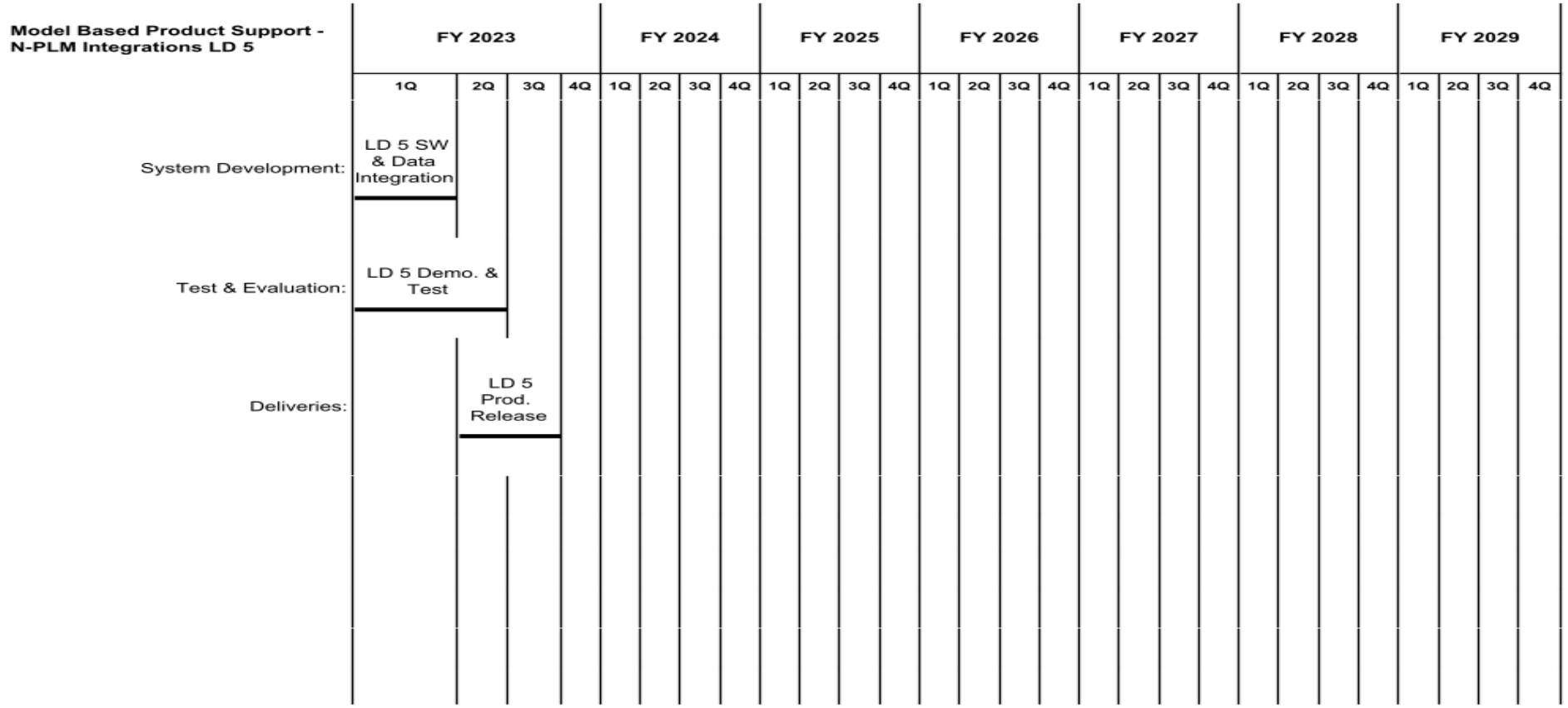
Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Advanced shipyard technologies	WR	NAWCAD : Patuxent River, MD	1.200	0.000		0.000		0.000		-		0.000	0.000	1.200	-
Actionable Analytics Mgmt Support	WR	NAWCAD : Patuxent River, MD	0.500	0.000		0.000		0.000		-		0.000	0.000	0.500	-
Digital Twin Development	WR	NAWCAD : Patuxent River, MD	0.000	6.757	Feb 2023	0.000		0.000		-		0.000	0.000	6.757	-
Cyber Supply Chain Risk Management	WR	NAWCAD : Patuxent River, MD	0.000	3.327	Mar 2023	0.000		0.000		-		0.000	0.000	3.327	-
		Subtotal	24.738	14.911		0.000		0.000		-		0.000	0.000	39.649	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	71.906	27.064		0.000		0.000		-		0.000	0.000	98.970	N/A

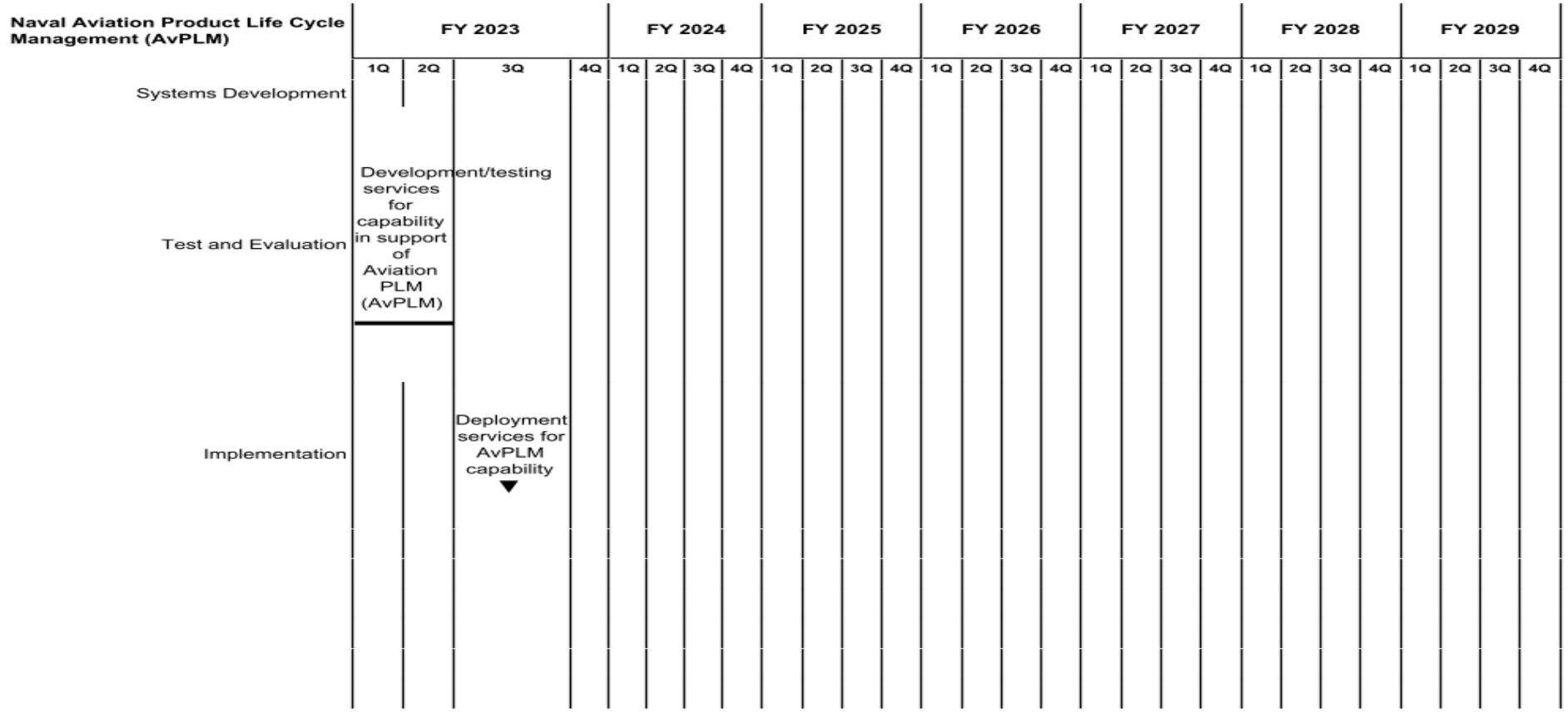
Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9999 / *Congressional Adds*



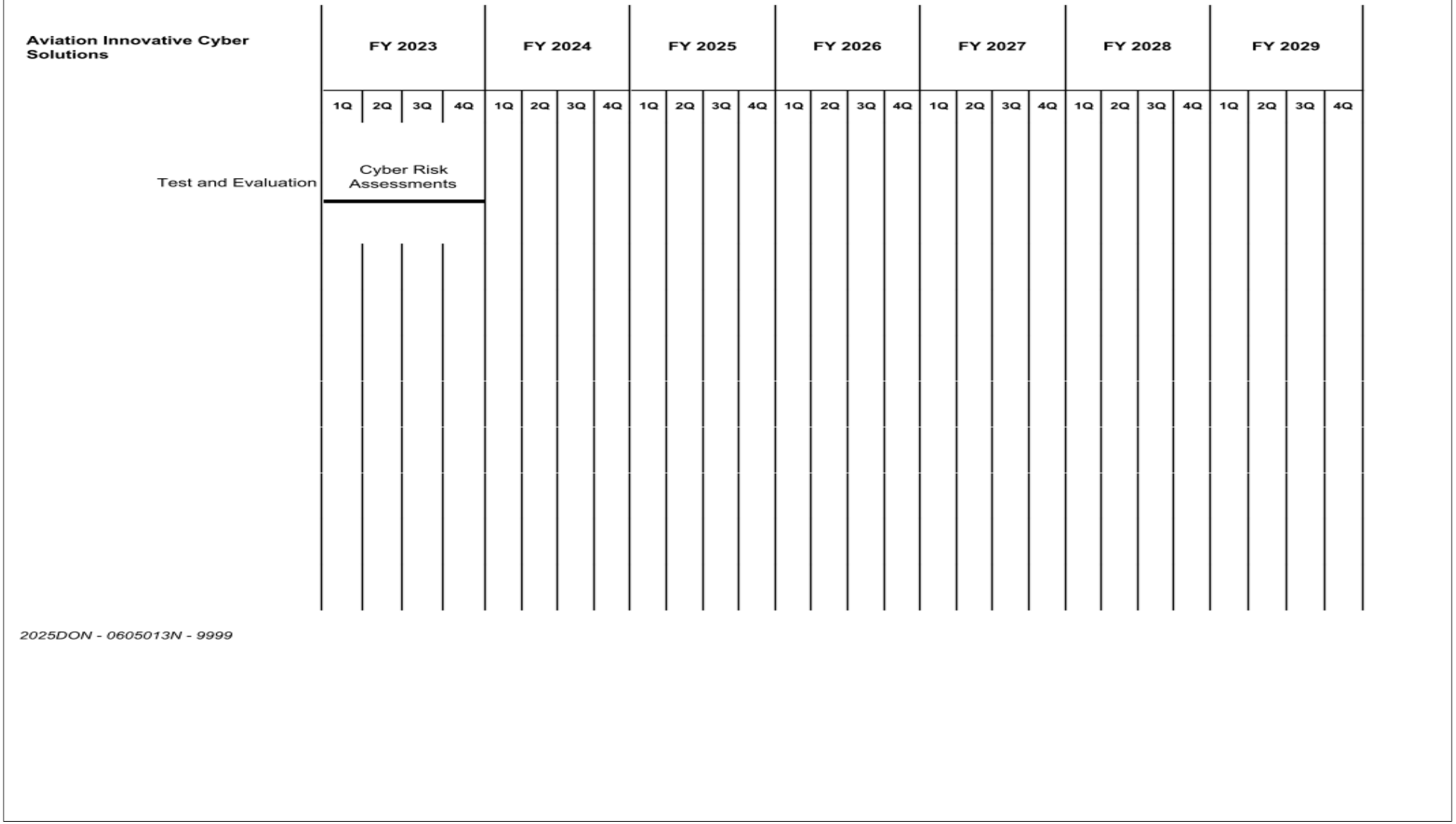
2025DON - 0605013N - 9999

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9999 / *Congressional Adds*



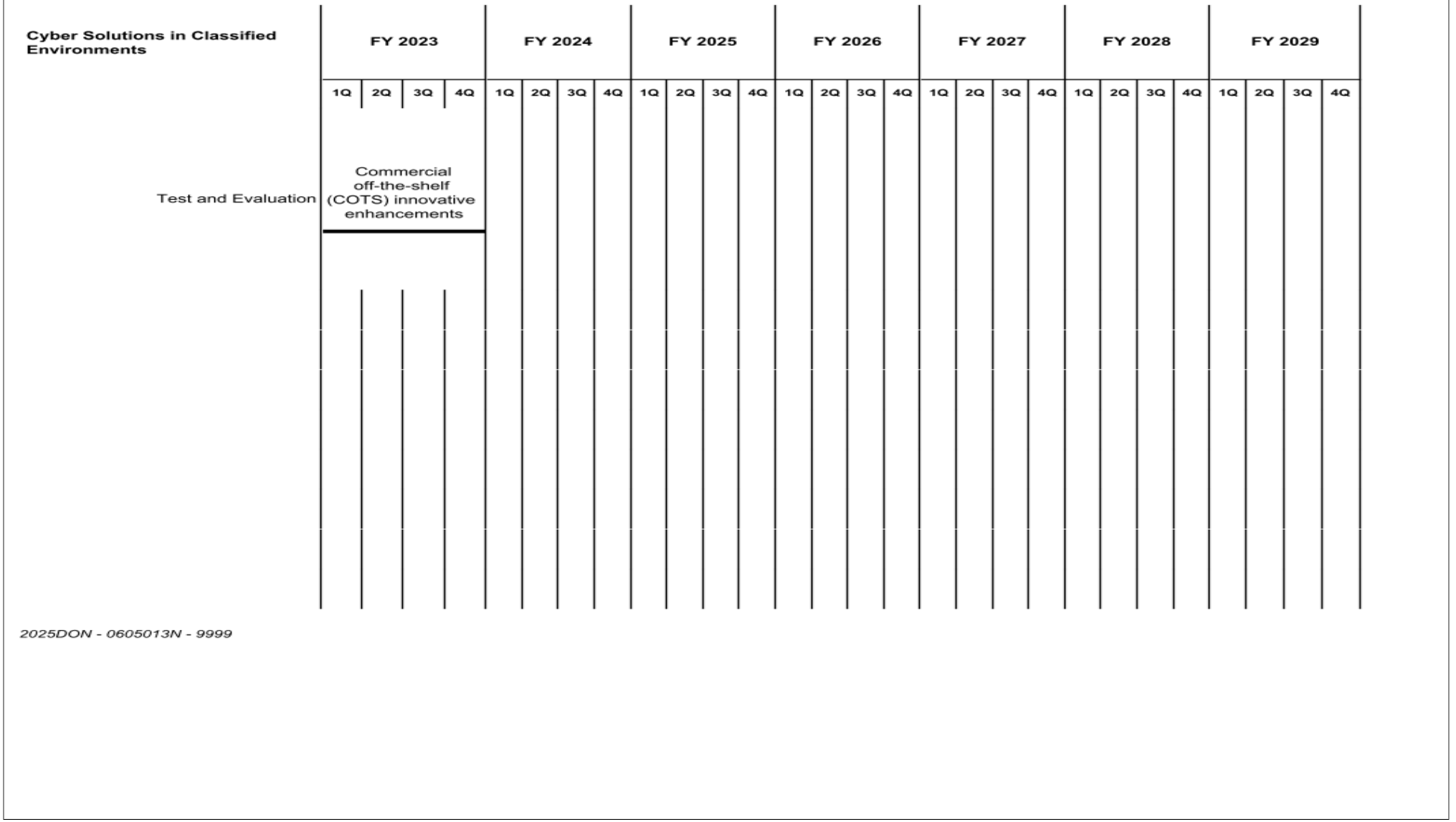
2025DON - 0605013N - 9999

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9999 / *Congressional Adds*



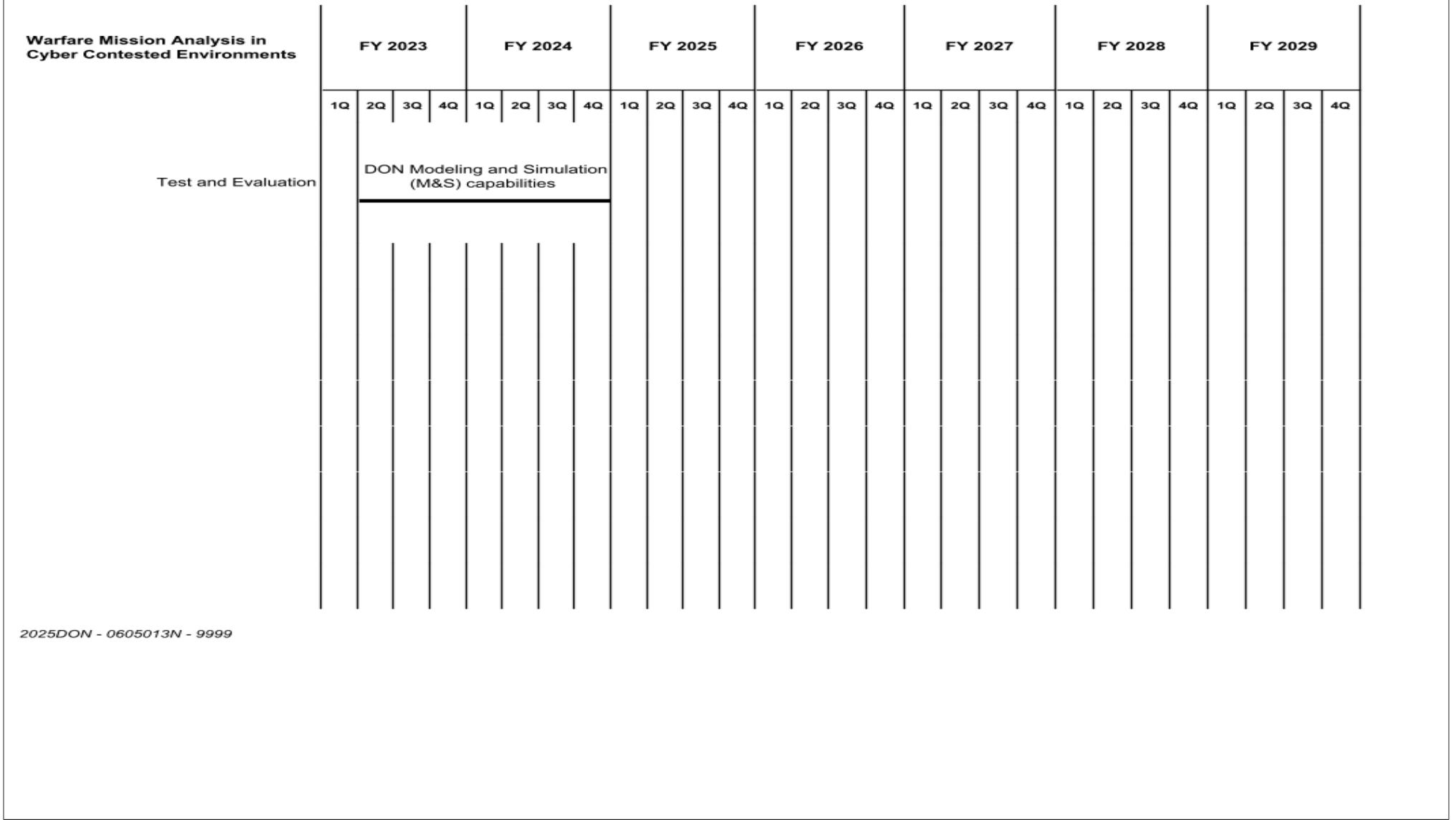
2025DON - 0605013N - 9999

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9999 / *Congressional Adds*



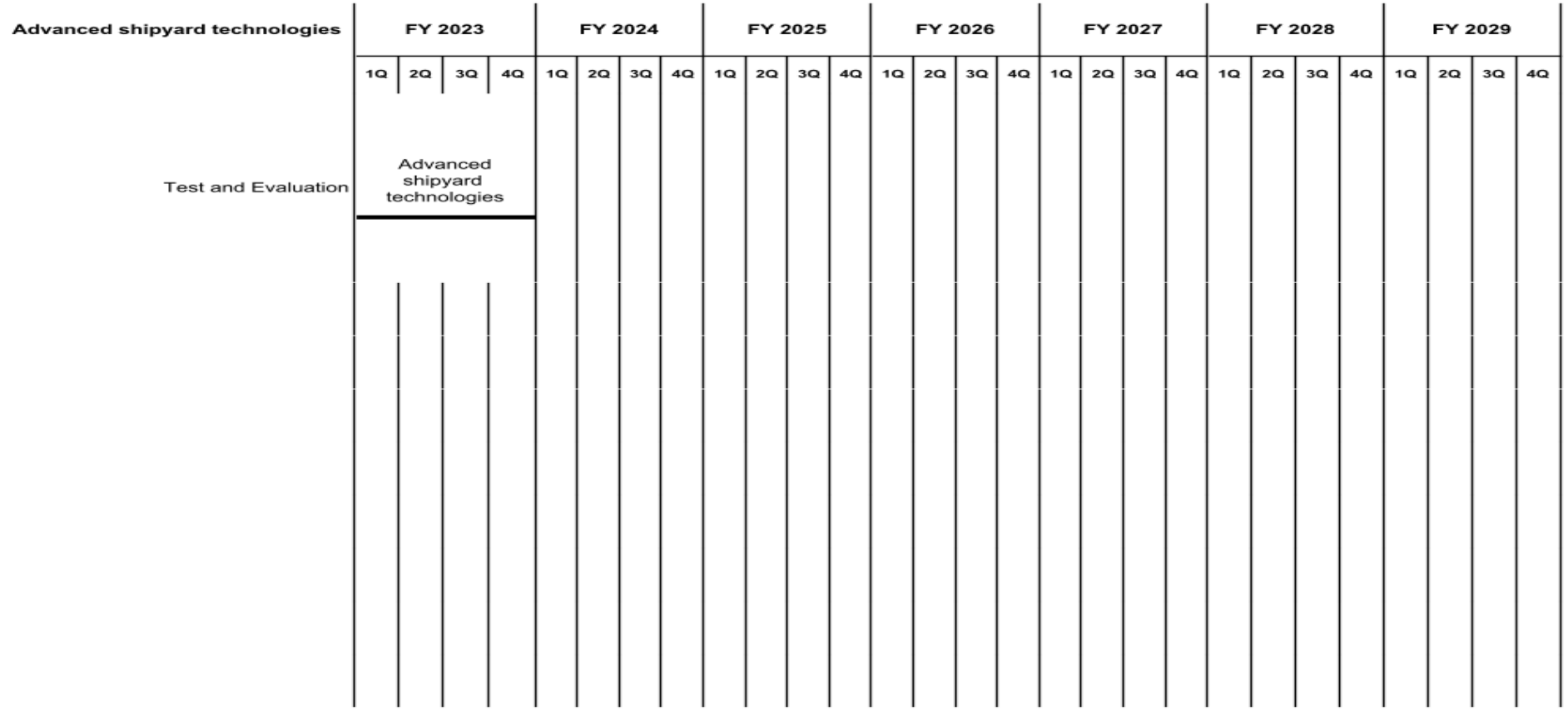
2025DON - 0605013N - 9999

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9999 / *Congressional Adds*



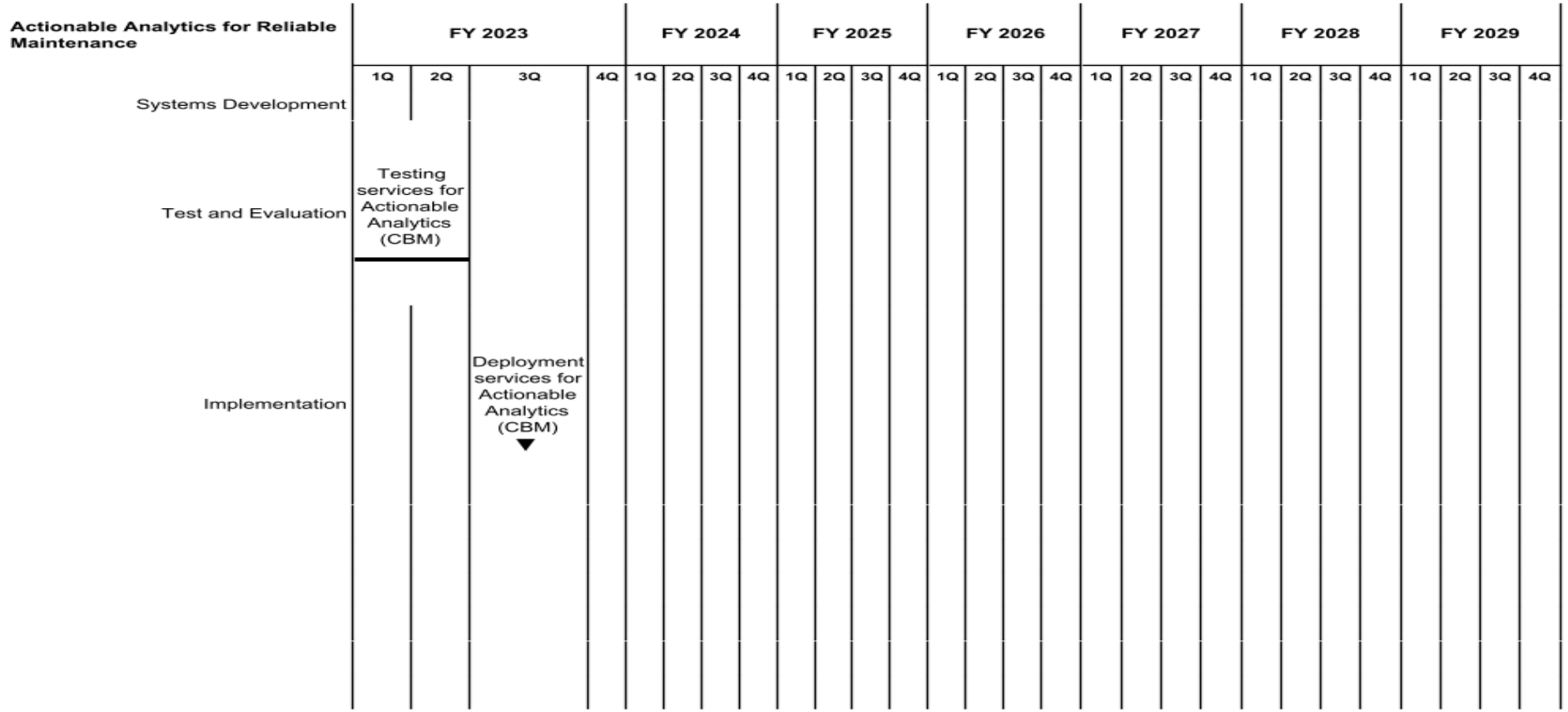
2025DON - 0605013N - 9999

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9999 / *Congressional Adds*



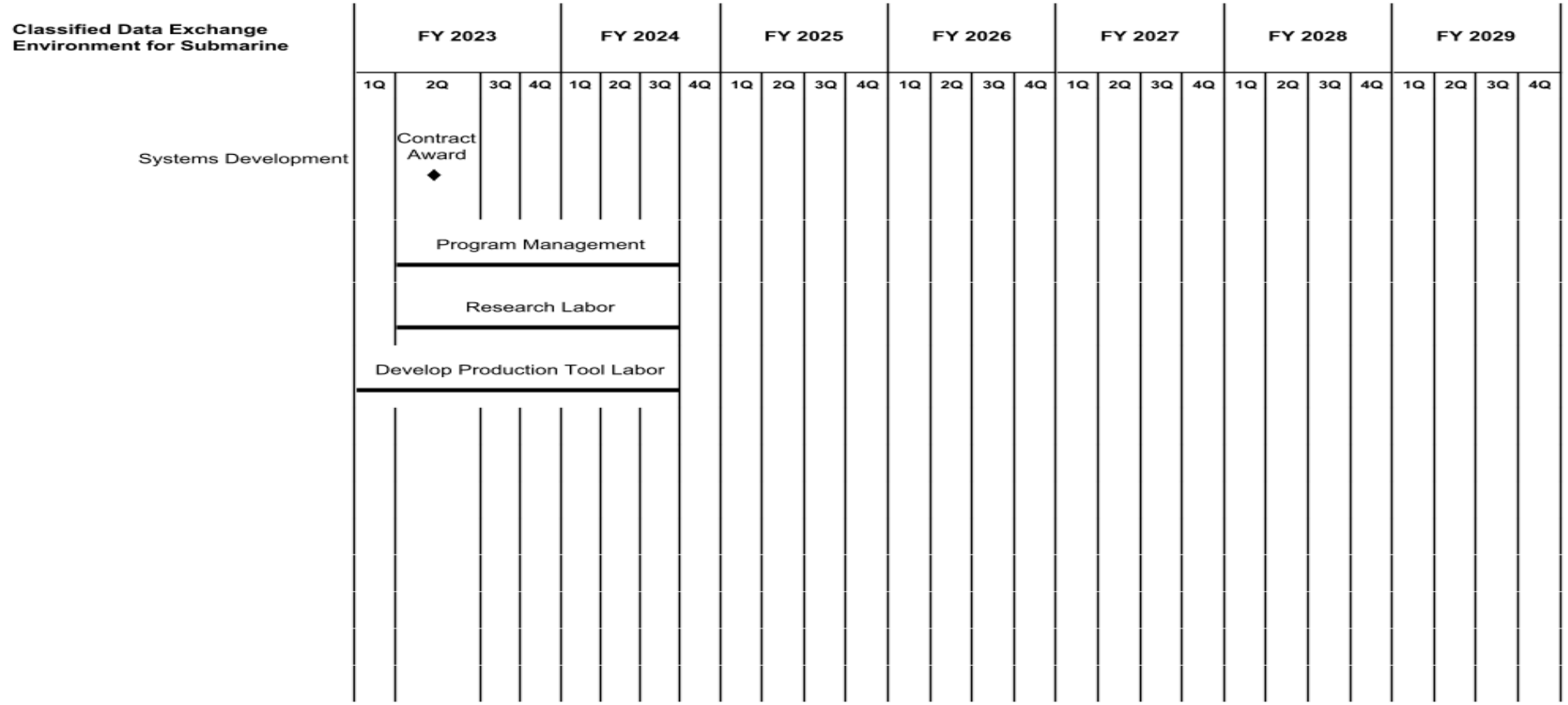
2025DON - 0605013N - 9999

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9999 / *Congressional Adds*



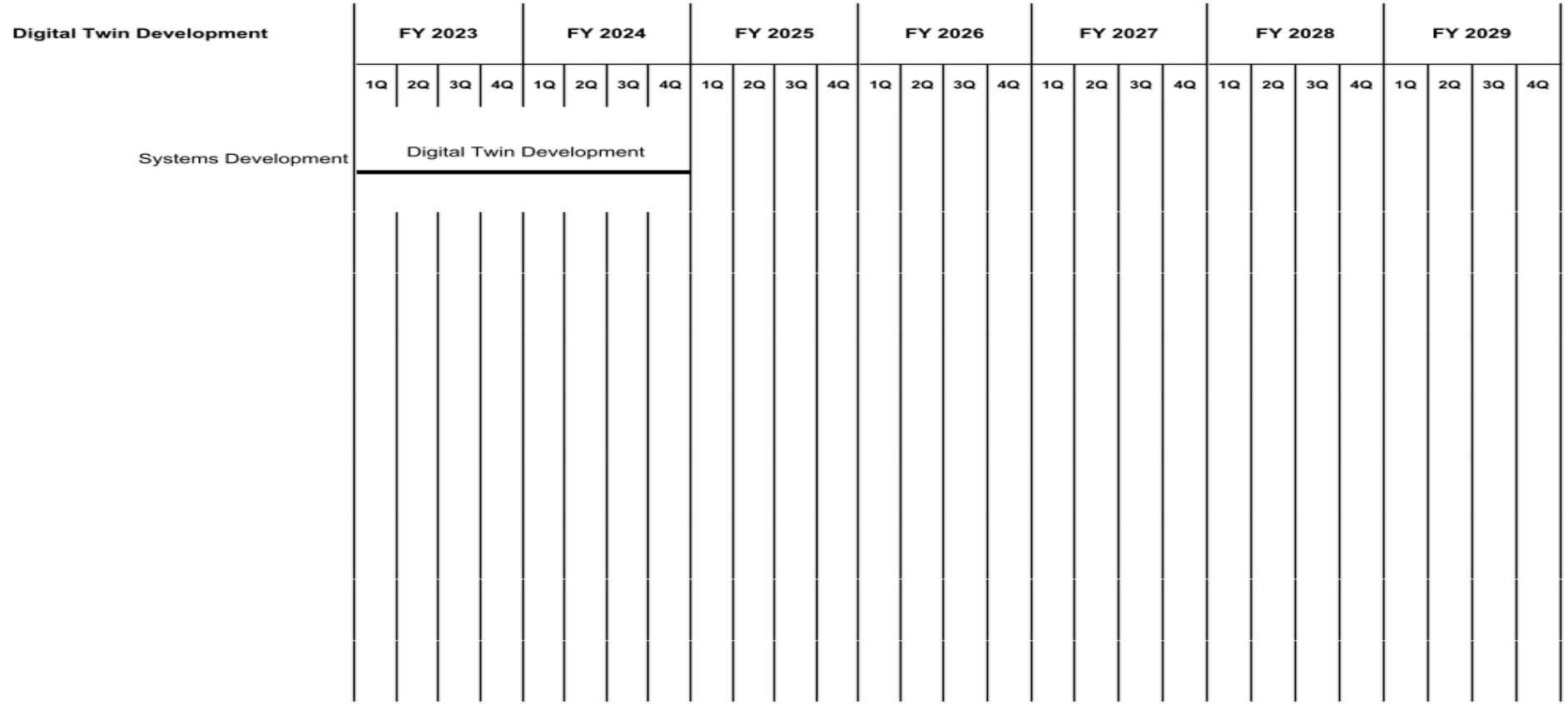
2025DON - 0605013N - 9999

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9999 / *Congressional Adds*



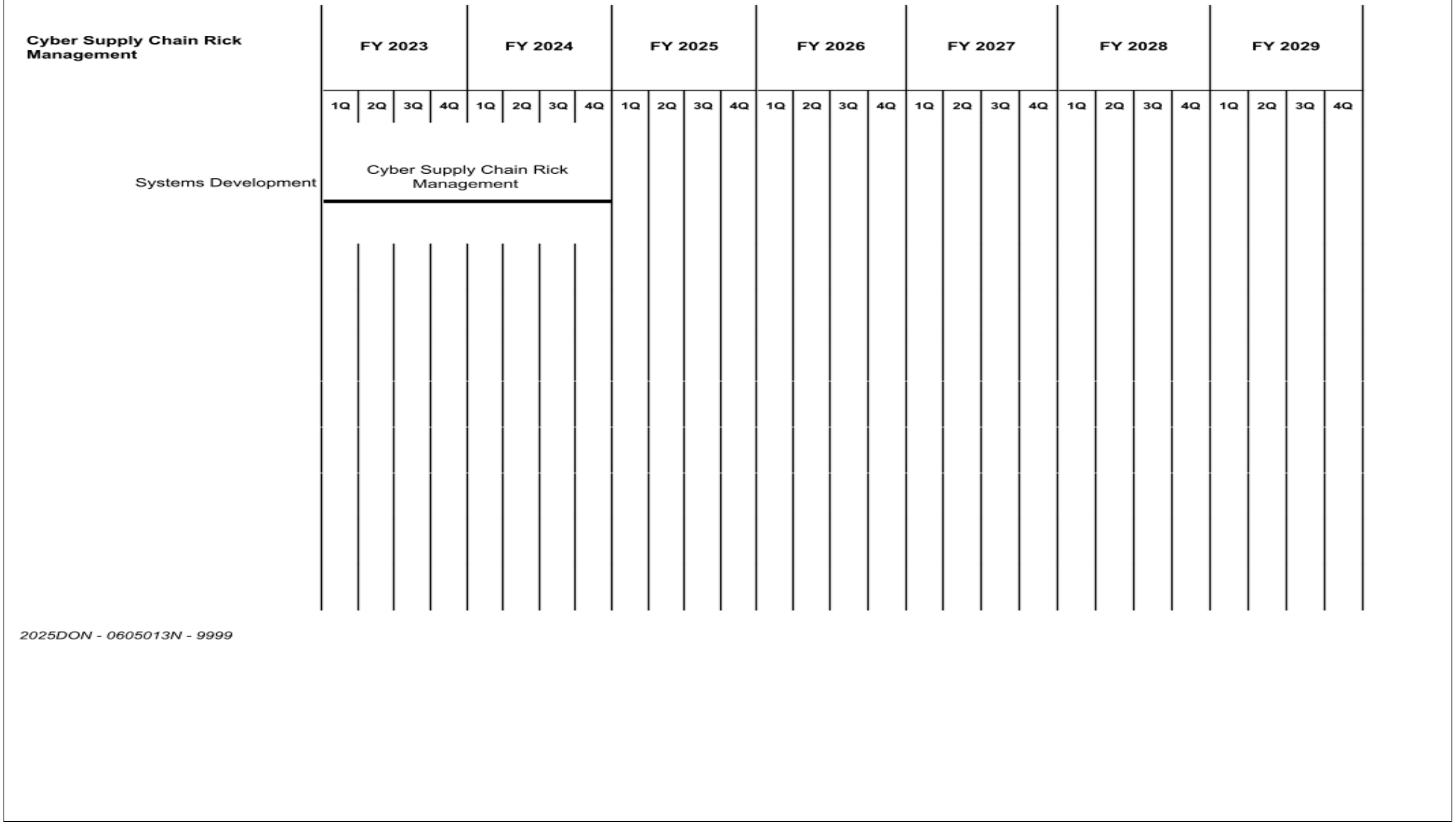
2025DON - 0605013N - 9999

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9999 / *Congressional Adds*



2025DON - 0605013N - 9999

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9999 / *Congressional Adds*



2025DON - 0605013N - 9999

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9999 / *Congressional Adds*

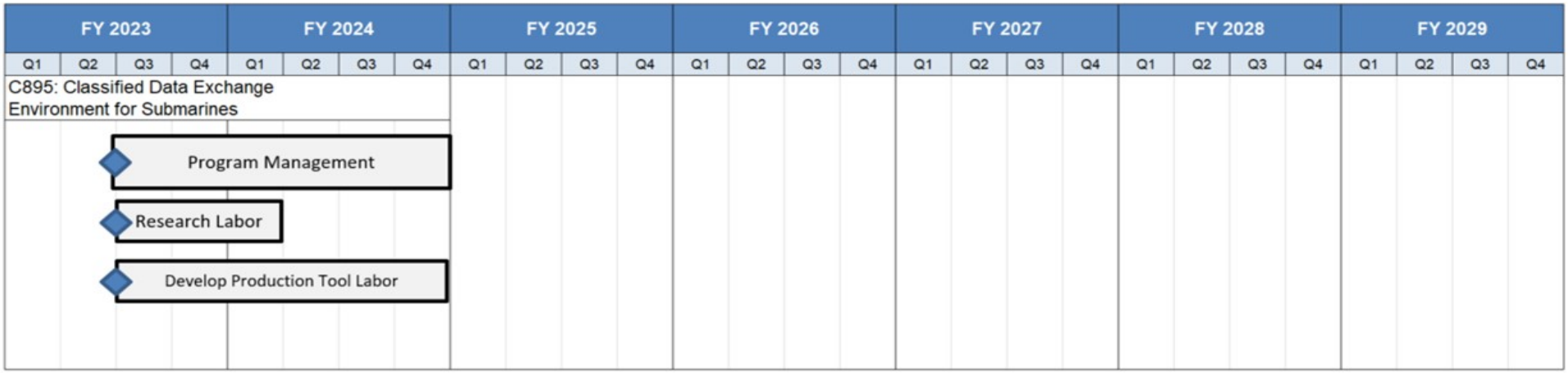


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9999 / *Congressional Adds*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Model Based Product Support - N-PLM Integrations LD 5				
System Development:: Software and Data Integrations	1	2023	1	2023
Test & Evaluation:: LD 5 Demonstration and Testing	1	2023	2	2023
Deliveries:: LD 5 Production Release	2	2023	3	2023
Naval Aviation Product Life Cycle Management (AvPLM)				
Test and Evaluation: Testing services for capability in support of Aviation PLM (AvPLM)	1	2023	2	2023
Implementation: Deployment services for AvPLM capability	3	2023	3	2023
Aviation Innovative Cyber Solutions				
Test and Evaluation: Cyber Risk Assessments	1	2023	4	2023
Cyber Solutions in Classified Environments				
Test and Evaluation: Commercial off-the-shelf (COTS) innovative enhancements	1	2023	4	2023
Warfare Mission Analysis in Cyber Contested Environments				
Test and Evaluation: DON Modeling and Simulation (M&S) capabilities	2	2023	4	2024
Advanced shipyard technologies				
Test and Evaluation: Advanced shipyard technologies	1	2023	4	2023
Actionable Analytics for Reliable Maintenance				
Test and Evaluation: Testing services for Actionable Analytics (CBM)	1	2023	2	2023
Implementation: Deployment services for Actionable Analytics (CBM)	3	2023	3	2023
Classified Data Exchange Environment for Submarine				
Systems Development: Contract Award	2	2023	2	2023
Systems Development: Program Management	3	2023	4	2024

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605013N / *Information Technology Development*	**Project (Number/Name)** 9999 / *Congressional Adds*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Systems Development: Research Labor	3	2023	1	2024
Systems Development: Develop Production Tool Labor	3	2023	4	2024
Digital Twin Development				
Systems Development: Digital Twin Development	1	2023	4	2024
Cyber Supply Chain Rick Management				
Systems Development: Cyber Supply Chain Rick Management	1	2023	4	2024