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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605013M / <i>Marine Corps IT Dev/Mod</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	102.014	12.545	1.494	0.974	-	0.974	1.441	1.380	1.231	1.255	Continuing	Continuing
2906: <i>Marine Corps IT</i>	102.014	12.545	1.494	0.974	-	0.974	1.441	1.380	1.231	1.255	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program establishes, sustains, and continuously refines computing platforms and Information Technology (IT) services as tested, certified and reusable components of a Marine Corps IT framework that spans the range of military and garrison operations.

B. Program Change Summary (\$ in Millions)

	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO</u>	<u>FY 2021 Total</u>
Previous President's Budget	11.030	1.494	1.407	-	1.407
Current President's Budget	12.545	1.494	0.974	-	0.974
Total Adjustments	1.515	0.000	-0.433	-	-0.433
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	1.938	0.000			
• SBIR/STTR Transfer	-0.423	0.000			
• Rate/Misc Adjustments	0.000	0.000	-0.433	-	-0.433

Change Summary Explanation

The FY 2021 funding request was reduced by \$0.433M to account for the availability of prior year execution balances.

The decrease of \$0.520M in FY 2020 to FY 2021 funding is primarily due to the completion of several Manpower, Recruiting and Financial System modernization efforts.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy										Date: February 2020		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605013M / <i>Marine Corps IT Dev/Mod</i>				Project (Number/Name) 2906 / <i>Marine Corps IT</i>			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
2906: <i>Marine Corps IT</i>	102.014	12.545	1.494	0.974	-	0.974	1.441	1.380	1.231	1.255	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

The FY 2021 funding request was reduced by \$0.433M to account for the availability of prior year execution balances.

A. Mission Description and Budget Item Justification

Manpower Operations Systems (MOS) is a portfolio of enterprise IT systems and modules that support manpower business operations for the Total Force (active and reserve). The investment in the portfolio improves dataflow and increases reliability, functionality, and accuracy of data while reducing the manpower required to operate and maintain these systems/operations. Development is partially driven by regulatory and policy changes mandated by Congress, DOD, Department of the Navy (DON), and United States Marine Corps (USMC). These systems support all five tiers of Manpower: 1) Individual Marine, 2) Small Unit Leader; 3) Unit, 4) Installation Personnel Administration Center (IPAC)/Disbursing Echelon, and 5) Headquarters Marine Corps (HQMC) Manpower and Reserve Affairs (M&RA)/Defense Finance and Accounting Service. The MOS portfolio provides support in functional areas such as permanent change of station assignments, retention, mobilization, manpower planning, line of duty determination, personnel accountability, individual augmentation, personnel records management and maintenance, management of case incidents, civilian professional development planning, pay entitlement determinations, promotion and performance evaluations and self-service/visibility of personnel data. MOS programs interface with other systems to provide manpower data and web services functionality for pay and personnel transactions between systems. Systems in the portfolio include the Web-enabled Manpower Assignment Support System (WebMASS), Automated Performance Evaluation System (APES), Total Force Retention System (TFRS), Optical Digital Imaging - Records Management System (ODI-RMS), Marine Corps Force Augmentation System (MCFAPS), Secure Personnel Accountability (SPA) and the Requirements, Transition and Manpower Management System (RTAMMS). The current systems have become obsolete and are unable to maintain an acceptable Cyber Security posture. Modernization efforts will involve business process and application reengineering, with a focus on redefining the Human Resource Development Process (HRDP) to deliver a portfolio of streamlined capabilities on a modern and secure platform.

Marine Corps Enterprise Information Technology Services (MCEITS) provides an overarching portfolio of capabilities to deliver "Power to the Edge" for the Marine Corps. Born from an effort to establish a Continuity of Operations Plan of HQMC Automated Information Systems, MCEITS enables realignment of the existing USMC environment of applications, databases, networks, and facilities into an integrated architecture of programs to deliver new information technology capabilities based on a common infrastructure and shared services. MCEITS is a unifying framework of both the Enterprise Services to be delivered, and the infrastructure and systems which must be deployed to enable delivery of those services. Initially it will encompass the Operational, Technical, and Systems architectures of the enterprise environment. However, ultimately it will extend to transform information access both in garrison and in the deployed environment. Combined with policy, procedure and standards provided by HQMC (C4), MCEITS will allow for architectural standardization, consolidated management, and seamless interoperability of and access to the data residing in currently fielded applications (business and tactical). Testing efforts will be focused on MCEITS provided services operating within a MCEITS hosting environment. MCEITS enables services to be federated throughout the Marine Corps to include Content Discover and Delivery, Collaboration and Text Chat, between the service consumer and provider. Efforts for MCEITS will focus on application migration development, the analysis, research and design of increments 3 & 4 and the technology refreshed software and hardware infrastructure, modernized and enhanced MCEITS high availability, automation and service management with continued Pre-Planned Product Improvements (P3I) efforts.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy	Date: February 2020
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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605013M / <i>Marine Corps IT Dev/Mod</i>	Project (Number/Name) 2906 / <i>Marine Corps IT</i>
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Marine Corps Recruiting Information Support System (MCRISS) is an enterprise level system to automate administrative procedures for the recruiting station operations. This customized automated System, centered on procedures in the Guidebook for Recruiters, Volume I, dramatically improves efficiency and effectiveness in Marine Corps recruiting. Furthermore, Military Entrance Processing Command requires Marine Corps recruiting to provide information in electronic format only. MCRISS is the Marine Corps Recruiting Command's program to manage applicant processing from commitment to accession/commission into the Marine Corps and Marine Corps Reserve. This enterprise approach allows for efficient sharing of information about potential recruits and recruiter screening efforts, yielding a more cost effective process. The current system requires modernization of the systematic recruiting components to provide efficiency for the Recruiting force from the Headquarters element down to the Recruiter, and requires numerous updates in order to become fully compliant with Cyber Security and CNA policies and mandates to protect PII/PHI data captured and stored in the system. The Modernization effort will involve a competitive evaluation of several prototype systems, leading to a selection of a viable platform and the complete replacement of the current MCRISS system with modern and secure technology.

Paperless Office/Acquisition (PA) funding supports development and enhancement of Purchase Request (PR) Builder, which is the Marine Corps enterprise solution for the electronic generation of purchase requests, funding documents, miscellaneous payments, and serves as the front-end system for feeding the DOD enterprise contracting writing system Standard Procurement System (SPS). PR Builder is a fully web-based, Mission Assurance Category (MAC) III sensitive business system that provides the Marine Corps with a net-centric capability to electronically create, route for approval, and apply funding to Purchase Requests (PRs), Funding Documents, and Miscellaneous Payments. PR Builder is the authoritative procurement generation system within the Marine Corps electronic Paperless Acquisition (PA) Systems Business Enterprise that provides system-to-system interaction with the Marine Corps' Standard Procurement System (SPS)/Procurement Desktop Defense (PD2, Department of Defense (DoD) Standard Accounting, Budgeting, and Reporting System (SABRS), Electronic Document Access (EDA). These systems are critical to Marine Corps purchasing, contracting and procurement tracking control.

Readiness Reporting System-Marine Corps (RRS-MC), formerly Defense Readiness Reporting System-Marine Corps (DRRS-MC) - the Command Individual Risk and Resiliency Assessment System (CIRRAS), formerly known as the Force Preservation Program Tool Integrated Clinical Management-Risk Mitigation System (FPPT ICM-RMS), funding will develop software to enable commanding officers and senior enlisted advisors to make more informed and timely decisions on Force Preservation (FP) risk assessments, based on identifying and tracking individual Service Member (SM) behaviors associated with increased risk or resiliency as defined by the Marine Corps "Six Fs" (Fidelity, Fighter, Fitness, Family, Finances, and Future). CIRRAS will close FP implementation and process gaps by fielding an enterprise-wide system to manage individual SM FP risk by providing a consistent approach and a standardized methodology to support protective factors and mitigate adverse outcomes. This funding will deploy additional FP functionality to increase the ability to perform, inform, and record behavioral Service Member risk assessment within the Marine Corps. The enhanced CIRRAS capabilities to be implemented will automate the risk and resiliency scores, send automated alerts to leadership of "at risk" personnel, and implement additional system interfaces that will provide further key FP indicator data to assist in prevention of SM suicide.

Technology Services Organization (TSO): This Technical refresh/upgrade of Standard Accounting Budgeting Reporting System (SABRS) database technology from ADABAS to a newer database architecture provides a modern and well-supported database technology that ultimately enables the normalization of Marine Corps financial data in a true relational database. The newer database architecture will provide a modern data platform to support transactional operations within the DON General Fund accounting systems to optimize performance, readily scale, and reliably support data structure, quality, and availability for subsequent analysis to drive decision making. Successful implementation will be transparent to the SABRS user community while minimizing the potential for unanticipated system degradation/

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605013M / Marine Corps IT Dev/Mod	Project (Number/Name) 2906 / Marine Corps IT
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outages and secure the system's operational longevity. This Multi phased project (over 4 years), system supports 5k+ direct users, impacts entire DON General Funds accounting. Out year costs will be assumed into planned sustainment of SABRS.

The current configuration is antiquated with diminishing industry support. There is a limited pool of applicants available to work on ADABAS. Sustainment is cost prohibitive and the technology stack limits flexibility to fully support 21st century data/system requirements. TSO will be unable to mitigate identified technical and support risk associated with current technology which could result in systems degradation and/or outage. This further leaves TSO unable to improve data integrity and audit compliance in SABRS by employing a more modern database. The impact on the operational capability is the risk to DON accounting and Financial Management operations increases daily for major system degradation or outage in both likelihood of occurrence and extent of the negative impact of such an occurrence. This will result in the system becoming less and less viable to the point where it will no longer support Marine Corps operations.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<p>Title: MANPOWER OPERATIONS SYSTEMS (MOS)</p> <p align="right">Articles:</p> <p>FY 2020 Plans: Initiate development of a modernized IT solution to consolidate and replace legacy Marine Corps Human Resource Development Process (HRDP) systems, workflows and business processes to deliver increasing value to the customer/user base and the Marine Corps.</p> <p>FY 2021 Base Plans: Continue development of a modernized IT solution to consolidate and replace legacy Marine Corps Human Resource Development Process (HRDP) systems, workflows and business processes to deliver increasing value to the customer/user base and the Marine Corps.</p> <p>FY 2021 OCO Plans: N/A</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: The FY 2020 to FY 2021 funding decrease of \$0.064M is due to the completion of several Manpower System modernization efforts.</p>	0.000	0.180	0.116	0.000	0.116
	-	-	-	-	-
<p>Title: MARINE CORPS ENTERPRISE INFORMATION TECHNOLOGY SERVICES (MCEITS)</p> <p align="right">Articles:</p> <p>FY 2020 Plans:</p>	1.331	0.000	0.000	0.000	0.000
	-	-	-	-	-

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605013M / Marine Corps IT Dev/Mod	Project (Number/Name) 2906 / Marine Corps IT
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
N/A FY 2021 Base Plans: N/A FY 2021 OCO Plans: N/A					
<p>Title: MARINE CORPS RECRUITING INFORMATION SUPPORT SYSTEM (MCRISS)</p> <p align="right">Articles:</p> <p>Description: The effort will support the modernization of MCRISS. The current system requires modernization of the systematic recruiting components to provide efficiency for the Recruiting force from the Headquarters element down to the Recruiter, and requires numerous updates in order to become fully compliant with Cyber Security and CNA policies and mandates to protect PII/PHI data captured and stored in the system. The modernization effort will involve a competitive evaluation of several prototype systems, leading to a selection of a viable platform and the complete replacement of the current MCRISS system with modern and secure technology.</p> <p>FY 2020 Plans: Complete the development and fielding of MCRISS Modernization effort.</p> <p>FY 2021 Base Plans: Continue ECP Development of new interfaces to align with modernized accessions systems within the USMC.</p> <p>FY 2021 OCO Plans: N/A</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: The FY 2020 to FY 2021 funding decrease of \$0.158M is due to the completion of the development and fielding of the MCRISS modernization effort.</p>	4.099	0.321	0.163	0.000	0.163
Articles:	-	-	-	-	-
<p>Title: Readiness Reporting System-Marine Corps (RRS-MC)</p> <p align="right">Articles:</p> <p>FY 2020 Plans: N/A</p> <p>FY 2021 Base Plans:</p>	1.938	0.000	0.000	0.000	0.000
Articles:	-	-	-	-	-

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy	Date: February 2020
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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605013M / <i>Marine Corps IT Dev/Mod</i>	Project (Number/Name) 2906 / <i>Marine Corps IT</i>
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
N/A					
FY 2021 OCO Plans: N/A					
Title: PAPERLESS ACQUISITION (PA) Articles:	0.000 -	0.542 -	0.484 -	0.000 -	0.484 -
FY 2020 Plans: -Initiate research, development, and testing of PR Builder capability/interface to interact with the new Navy Electronic Procurement System (ePS) capability to replace current Standard Procurement System (SPS).					
FY 2021 Base Plans: -Continue the research, development, and testing of PR Builder capability/interface to interact with the new ePS capability to replace the current SPS. Initiate the research, development ,and testing of PR Builder capability/ interface with the Navy Enterprise Resource Planning (ERP) program.					
FY 2021 OCO Plans: N/A					
FY 2020 to FY 2021 Increase/Decrease Statement: Decrease of funds \$0.058M from FY 2020 to FY 2021 is a cost savings and a result of gained efficiencies through lessons learned on the Navy Electronic Procurement System (ePS) from FY20.					
Title: TECHNOLOGY SERVICES ORGANIZATION (TSO) Articles:	5.177 -	0.451 -	0.211 -	0.000 -	0.211 -
FY 2020 Plans: - Continue research and development of the most efficient approach for transitioning the DON General Fund Accounting System, SABRS, to a modern data platform. - Continue Manpower Personnel Administration (MPA) Modernization effort for applications.					
FY 2021 Base Plans: - Continue research and development of the most efficient approach for transitioning the DON General Fund Accounting System, SABRS, to a modern data platform.					

UNCLASSIFIED

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605013M / <i>Marine Corps IT Dev/Mod</i>	Project (Number/Name) 2906 / <i>Marine Corps IT</i>
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
- Continue development efforts in support of Manpower Personnel Administration (MPA) Modernization of applications. FY 2021 OCO Plans: N/A FY 2020 to FY 2021 Increase/Decrease Statement: The FY 2020 to FY 2021 funding decrease of \$0.240M is due to reduced costs associated with the Research & Development portion of the Modernization efforts.					
Accomplishments/Planned Programs Subtotals	12.545	1.494	0.974	0.000	0.974

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO</u>	<u>FY 2021 Total</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PMC/4630 - MCRISS: MC <i>Recruiting Info Support System</i>	0.362	0.050	0.050	-	0.050	0.051	0.052	0.053	0.054	Continuing	Continuing
• PMC/4630 - PA: <i>Paperless Office/Acquisition</i>	0.124	0.127	0.130	-	0.130	0.133	0.136	0.139	0.142	Continuing	Continuing
• PMC/4630-MCEITS: MC <i>Enterprise IT Services</i>	19.118	18.010	4.571	-	4.571	4.582	8.246	8.367	8.536	Continuing	Continuing
• PMC/4620- MOS: Manpower <i>Operations Systems (MOS)</i>	0.246	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
• PMC/4630 - TSO: Technology <i>Services Organization (TSO)</i>	0.878	3.891	3.909	-	3.909	1.404	0.945	0.964	0.983	0.000	15.949

Remarks

D. Acquisition Strategy
 Manpower Operations Systems (MOS) within this portfolio follows an Evolutionary Acquisition (EA) approach: 1. Define, develop, and deliver an initial or "core" capability based on mature technology. 2. "Core" capability will be incrementally improved over an extended period of time. Incremental Development Model: 1. Iterative cycles of requirements definition, design, build and evaluation. The contracting strategy across the portfolio is to utilize competitive firm-fixed price contracts.

Marine Corps Enterprise Information Technology Services (MCEITS) is using an incremental acquisition approached implemented in separate releases followed by Pre-Planned Product Improvements (P3Is) delivering capabilities faster and more efficiently. The program will deliver an initial capability and continue integration and product of the system in accordance with the USMC Information Enterprise Strategy. The objective is to balance needs with available commercial and government

UNCLASSIFIED

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605013M / <i>Marine Corps IT Dev/Mod</i>	Project (Number/Name) 2906 / <i>Marine Corps IT</i>
<p>solutions and resources, and to rapidly adopt evolving technologies and requirements and keep pace with the continuously evolving DoD Net-Centric enterprise to provide capabilities to the Marines. This strategy is supported by an Indefinite Delivery Indefinite Quantity contracting vehicle which will allow the contractor to provide the full range of capabilities, services and solutions necessary to satisfy the requirements through incremental implementation of technology, processes and capabilities. Capabilities will be delivered through individual task orders to ensure technology and services are inserted according to the overall program goals, user requirements and program schedule.</p> <p>Paperless Acquisition (PA) will use an incremental development methodology utilizing short development periods. The contracting strategy is to use a firm-fixed price contract to reduce risk to government, with additional capabilities defined by a Marine Corps Configuration Control Board and delivered to the service integrator as a modification to the contract. The delivery of small functional capabilities allows for measurable enhancements to the base system while keeping Post Deployment System Support costs relatively low.</p> <p>Readiness Reporting System-Marine Corps (RRS-MC)(Formerly Defense Readiness Reporting System-Marine Corps (DRRS-MC) is a Mission Assurance Category I (MAC I) Classified system that integrates information on reportable unit readiness (Marines/ Equipment) and mission effectiveness of deployed and contingency forces. Mission (Core/Assigned) determined to be vital to the operational readiness and mission effectiveness of deployed and contingency forces. The operation mission of Command Individual Risk and Resiliency Assessment System (CIRRAS), formerly known as Force Preservation Program Tool Integrated Clinical Management-Risk Mitigation System (FPPT ICM-RMS), is that it will enable Commanding Officers and Senior Enlisted Advisors to make informed decisions on force preservation assessments.</p> <p>Marine Corps Recruiting Information Support System (MCRISS) utilizes modular/incremental development to maintain system operability while allowing for continued development. Contracting strategy for Legacy system support includes competitive firm-fixed price IDIQ contracts; MCRISS Modernization effort to be executed leveraging direct-award opportunity to a qualified 8(a) small business partner.</p> <p>Technology Services Organization (TSO) SABRS: Funding will assist with research and development of the most efficient approach for transitioning the DON General Fund Accounting System, SABRS, to a modern data platform in order to eliminate the risk associated with an aging and expensive technology with dwindling number of technical experts. This Technical refresh/upgrade of SABRS database technology from ADABAS to a newer database architecture provides a modern and well-supported database technology that ultimately enables the normalization of Marine Corps financial data in a true relational database.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605013M / Marine Corps IT Dev/Mod	Project (Number/Name) 2906 / Marine Corps IT
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Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Paperless Ofc Acq Dev	WR	NAVAIR : TBD	0.000	0.000		0.542	May 2020	0.484	May 2021	-		0.484	Continuing	Continuing	Continuing
RMI	C/BA	SPAWAR: : San Diego, CA	1.200	0.000		0.000		0.000		-		0.000	0.000	1.200	-
RRS-MC (CIRRAS) - Software Development	C/CPFF	NIWC : Charleston, SC	1.489	1.202	Jul 2019	0.000		0.000		-		0.000	0.000	2.691	-
MOS ODI-RMS Modernization	TBD	TBD : TBD	0.483	0.000		0.180	Mar 2020	0.116	Jan 2021	-		0.116	0.000	0.779	-
MPA Modernization	C/FFP	TBD : TBD	3.000	4.945	May 2020	0.000		0.000		-		0.000	0.000	7.945	-
TSO	Various	GDIT : Indianapolis, IN	0.313	0.232	Aug 2019	0.451	Aug 2020	0.211	May 2021	-		0.211	0.000	1.207	-
MCRISS Modernization	SS/IDIQ	CHENEGA DECISION SCIENCES, LLC : Lorton, VA	5.993	4.099	Apr 2019	0.321	Apr 2020	0.163	Jan 2021	-		0.163	0.000	10.576	-
Prior Years Cumulative Funding	Various	Various : Various	54.531	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Subtotal			67.009	10.478		1.494		0.974		-		0.974	Continuing	Continuing	N/A

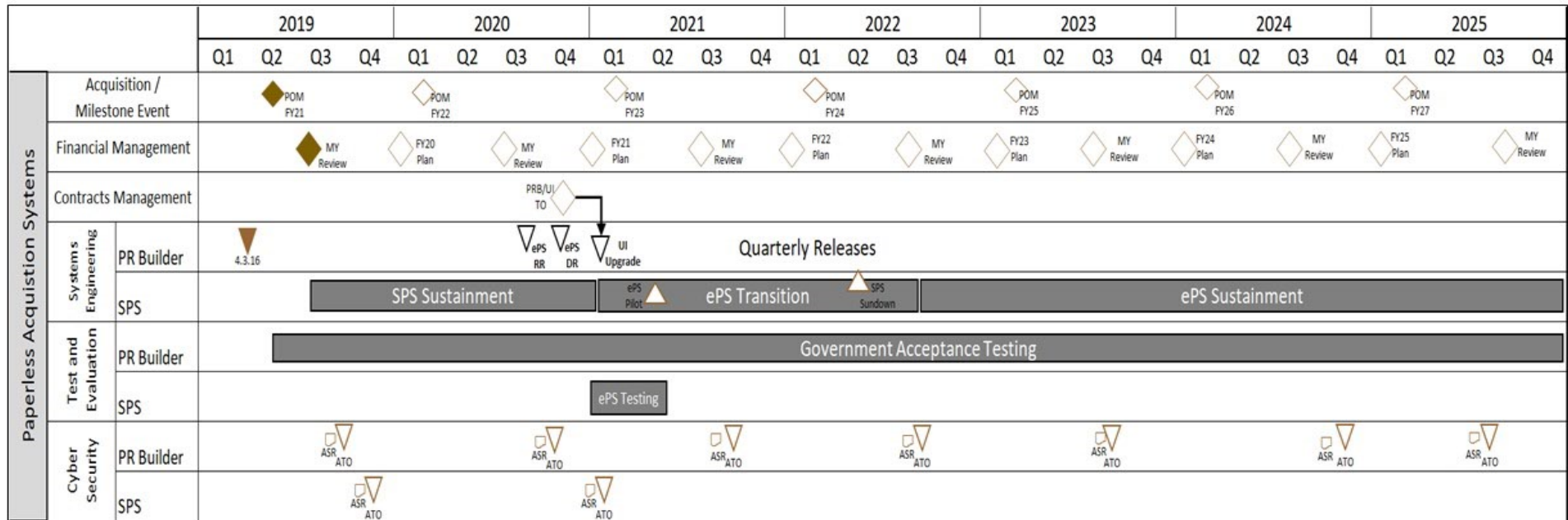
Support (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MCEITS HSI	WR	NSWC : Dahlgren, VA	0.375	0.000		0.000		0.000		-		0.000	0.000	0.375	-
MCEITS Application Migration Support	C/FFP	SYNEREN TECHNOLOGIES CORP : Arlington, VA	2.729	1.331	Feb 2019	0.000		0.000		-		0.000	0.000	4.060	-
Prior Years Cumulative Funding	Various	Various : Various	17.871	0.000		0.000		0.000		-		0.000	0.000	17.871	-
Subtotal			20.975	1.331		0.000		0.000		-		0.000	0.000	22.306	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Navy Date: February 2020

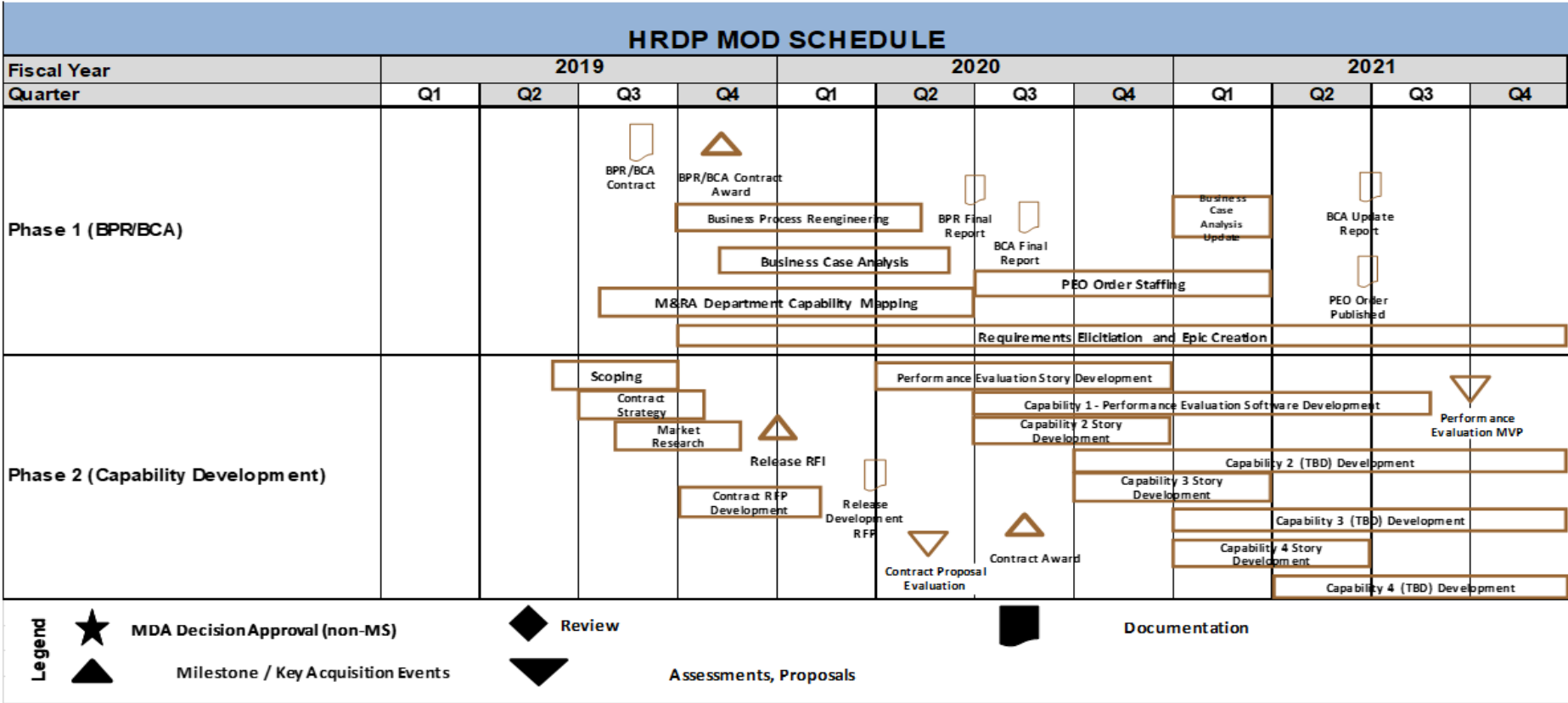
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605013M / Marine Corps IT Dev/Mod	Project (Number/Name) 2906 / Marine Corps IT
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PA Systems FYDP Timeline



UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2021 Navy	Date: February 2020
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605013M / Marine Corps IT Dev/Mod
	Project (Number/Name) 2906 / Marine Corps IT



UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2021 Navy

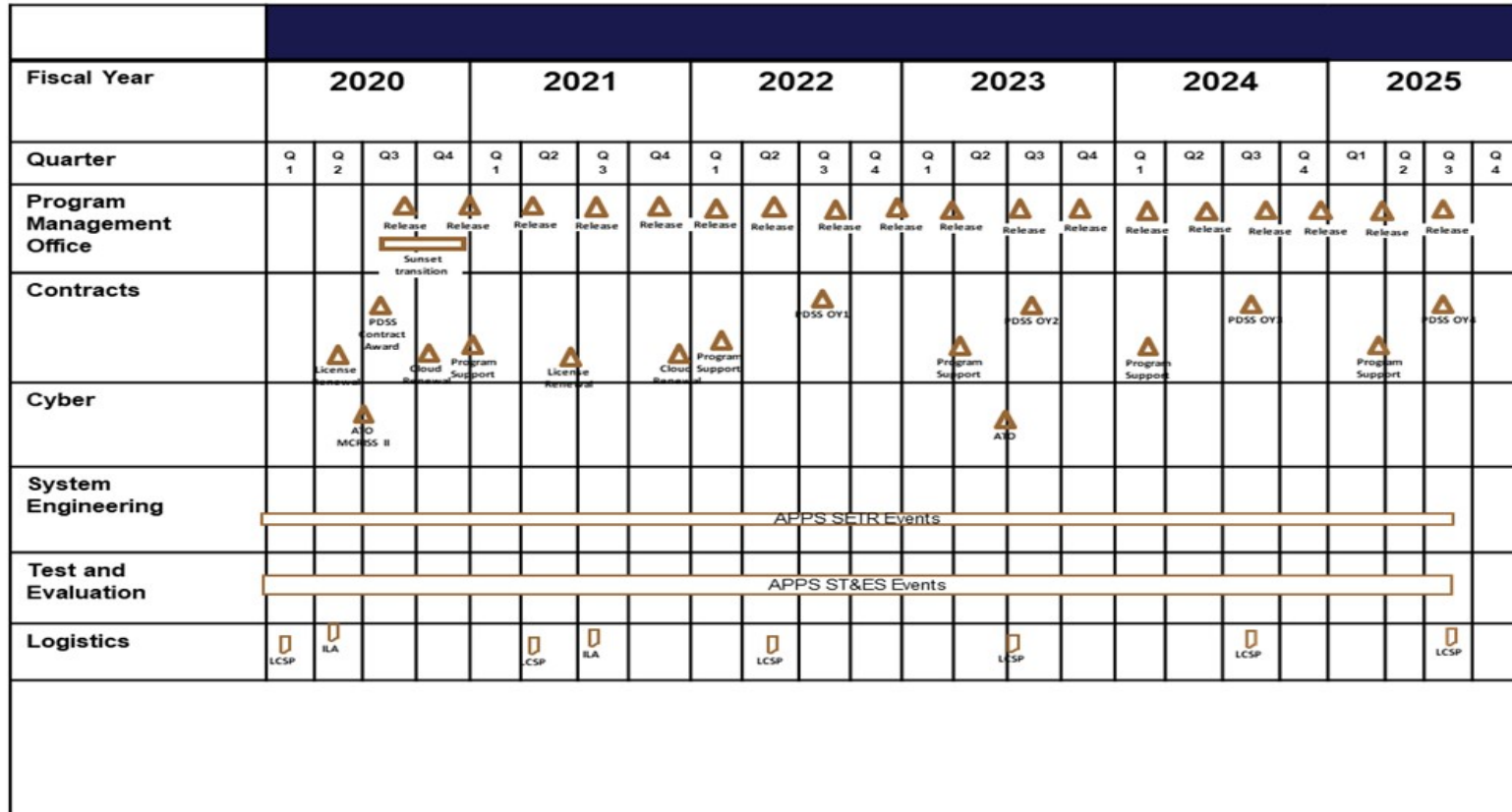
Date: February 2020

Appropriation/Budget Activity
1319 / 5

R-1 Program Element (Number/Name)
PE 0605013M / Marine Corps IT Dev/Mod

Project (Number/Name)
2906 / Marine Corps IT

MCRISS Schedule



UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605013M / Marine Corps IT Dev/Mod	Project (Number/Name) 2906 / Marine Corps IT
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Technology Services Organization (DB2 Technical Refresh)	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Pilot Project																												
Establish SABRS DB2 Pilot Development Environment				Install ▲	Test ▲																							
Establish SABRS DB2 Development Environment																												
Install SABRS DB2 Development Environment																												
Develop SABRS DB2 Development Environment						Tables ▲	DB ▲	Code ▲	ETL ▲																			
Establish SABRS DB2 Production Environment																												
Install SABRS DB2 Environment																												
Migrate SABRS Databases to DB2 Production												Table ▲																
												DB ▲	Code ▲															
													ETL ▲															
													JCL ▲															

2021PB - 0605013M - 2906

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605013M / <i>Marine Corps IT Dev/Mod</i>	Project (Number/Name) 2906 / <i>Marine Corps IT</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Technology Services Organization (DB2 Technical Refresh)</i>				
Pilot Project: Establish SABRS DB2 Pilot Development Environment: Install DB2 Pilot on Development Environment	4	2019	4	2019
Pilot Project: Establish SABRS DB2 Pilot Development Environment: Test DB2 Pilot Environment	1	2020	1	2020
Establish SABRS DB2 Development Environment: Develop SABRS DB2 Development Environment: Create DB2 Tables	2	2020	2	2020
Establish SABRS DB2 Development Environment: Develop SABRS DB2 Development Environment: Create DB2 Databases	3	2020	3	2020
Establish SABRS DB2 Development Environment: Develop SABRS DB2 Development Environment: Convert SABRS Code to work with DB2	4	2020	4	2020
Establish SABRS DB2 Development Environment: Develop SABRS DB2 Development Environment: Convert ETL tools to work with DB2	1	2021	1	2021
Establish SABRS DB2 Production Environment: Migrate SABRS Databases to DB2 Production: Migrate DB2 table to Production	4	2021	4	2021
Establish SABRS DB2 Production Environment: Migrate SABRS Databases to DB2 Production: Migrate DB2 databases to Production	4	2021	4	2021
Establish SABRS DB2 Production Environment: Migrate SABRS Databases to DB2 Production: Migrate SABRS Code to Production	1	2022	1	2022
Establish SABRS DB2 Production Environment: Migrate SABRS Databases to DB2 Production: Migrate ETL tools to Production	1	2022	1	2022
Establish SABRS DB2 Production Environment: Migrate SABRS Databases to DB2 Production: Migrate JCL to Production	1	2022	1	2022