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 0605215N *I Mission Planning*							
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	305.640	74.873	86.448	115.390	-	115.390	100.202	95.078	56.413	55.728	Continuing	Continuing
2213: *Mission Planning*	251.858	58.061	74.401	103.290	-	103.290	87.961	82.686	43.692	42.743	Continuing	Continuing
2311: *Stores Planning and Weaponeering Module*	53.782	11.986	12.047	12.100	-	12.100	12.241	12.392	12.721	12.985	Continuing	Continuing
9999: *Congressional Adds*	0.000	4.826	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4.826

A. Mission Description and Budget Item Justification

The Mission Planning PE is used to develop automated mission planning systems to support Naval Aviation.

The Joint Mission Planning System (JMPS) (Proj 2213) is the designated automated mission planning system for Naval Aviation, supporting over 40 Type/Model/Series (T/M/S) of U.S. Navy and Marine Corps aircraft, expeditionary forces as well as Joint and Coalition forces. The Joint Mission Planning System - Maritime (JMPS-M) enables weapon system employment by providing the information, automated tools, and decision aids needed to rapidly plan aircraft, weapon, or sensor missions, load mission data into aircraft and weapons, conduct mission rehearsal, execute missions, and conduct post-mission analysis. The Joint Mission Planning System - Expeditionary (JMPS-E) is a scalable, tailorable, and collaborative web-based mission planning and execution monitoring tool for Amphibious Squadron staffs embarked with each Amphibious Ready Group and Expeditionary Strike Group. Electronic Kneeboard (EKB) is a mobile computing device configured with various software applications and features to support aircrew during pre-flight planning, in-flight re-planning and mission execution, and post-mission debriefing and analysis. Preflight mission planning, data loading, rehearsals, mission execution and post mission analyses are conducted at all appropriate security classification levels.

The Standardized Tester of Reprogrammable Munitions (STORM) system (Proj 2213) replaces the legacy Common Munitions Built-in-Test (BIT)/Reprogramming Equipment (CMBRE) and provides USN/USMC forces the critical capability to perform built-in test and programming/reprogramming of various advanced weapons. The STORM system supports advanced operational capabilities, addresses legacy CMBRE system obsolescence, enhances cybersecurity posture to improve readiness, and improves sortie generation rate.

The Next Generation Naval Mission Planning System (NGNMPS), will address critical capability gaps and deficiencies in the legacy JMPS that are required for modern 21st century integrated mission-centric and collaborative multi-domain mission planning, execution and analysis. The NGNMPS will replace Naval Aviation's legacy JMPS no later than FY 2027 while also affordably leveraging prior investments across the systems of systems to deliver integrated and collaborative capability. The NGNMPS will affordably address technological obsolescence while also delivering collaborative and automated capabilities in an integrated virtual collaborative data environment. The NGNMPS capability provides advanced multiple aircraft planning capabilities focused on emerging, high-threat mission areas. Current mission planning capabilities support individual aircraft and weapon initialization requirements. The emerging, near-peer threat environment demands a much more capable system that enables a team of aircraft to cooperate effectively across multiple mission areas, domains, and security levels. The NGNMPS will also leverage service-oriented architecture to provide revolutionary improvements in workflow, usability, cybersecurity. Additionally NGNMPS will provide information and decision aids needed to rapidly plan/employ/maximize effectiveness of aircraft/weapon/sensor/payload mission plans. This functionality includes advanced pre-mission rehearsal/

analysis, loading mission data into aircraft and weapons, dynamic replanning/retargeting against evolving threats in contested environments, and advanced post-mission debrief/ analysis. The NGNMPS will incorporate cross-domain solution capabilities. These mission planning, mission execution, and mission analysis functions meet the National Defense Strategy and Interim National Security Strategic Guidance key objectives. The NGNMPS will conduct preflight mission planning, data loading, rehearsals, mission execution and post mission analyses at all appropriate security classification levels.

The Stores Planning and Weaponeering Module, also referred to as Weaponeering and Stores Planning (WASP) (Proj 2311), is an integrated software product that allows aircrew to determine the best combinations of weapons and delivery conditions to achieve the desired level of target damage. The WASP program performs detailed weapons employment planning for F/A-18 and E/A-18G aircraft. The WASP program provides inherent safety checks which eliminate weapon delivery solutions that violate aircraft T/M/S specific safety-of-flight envelopes. FY24 and out includes funding for the research and development in order to develop WASP for other Navy and Marine Corps platforms, and support WASP development and integration with the Next Generation Naval Mission Planning System (NGNMPS).

The total cost of the STORM Middle Tier Acquisition effort is $48.0 million, including RDT&E and procurement of prototype units. The STORM 804 program is fully funded through FY24.

The total cost of the NGNMPS Middle Tier Acquisition effort is $238.8 million, including RDT&E and procurement of prototype units. The NGNMPS program is fully funded across the Future Years Defense Program. NGNMPS will transition from an MTA program being executed under 804 authority at the end of FY24.

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under SYSTEM DEVELOPMENT & DEMONSTRATION (SDD) because it includes those projects that have passed Milestone B approval and are conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full-rate production decision.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	76.107	86.448	104.991	-	104.991
Current President's Budget	74.873	86.448	115.390	-	115.390
Total Adjustments	-1.234	0.000	10.399	-	10.399
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.234	0.000			
• Program Adjustments	0.000	0.000	11.073	-	11.073
• Rate/Misc Adjustments	0.000	0.000	-0.674	-	-0.674

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 0605215N *I Mission Planning*

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2023	FY 2024
Project: 9999: *Congressional Adds*		
Congressional Add: *Multi domain anti-submarine solutions*	4.826	0.000
Congressional Add Subtotals for Project: 9999	4.826	0.000
Congressional Add Totals for all Projects	4.826	0.000

Change Summary Explanation

FUNDING:

Funding increase in FY25 is due to transition of NGNMPS & STORM from 804 Middle Tier Acquisition activities to program of record and additional STORM MAP Software Development efforts. Also, increase due to additional Communication, Navigation, Surveillance/Air Traffic Management (CNS/ATM) efforts beginning in FY25.

TECHNICAL:
2213:
- Adjusted R2A & R3 to incorporate funding for JMPS-E

SCHEDULE:
2213:
- Added Minimum Viable Capability Release (MVCR) milestones to NGNMPS Program of Record.
- Added JMPS-E MPE transition to NGNMPS from 1Q FY25 to 4Q FY27
- Added SW Delivery milestones to STORM MAP SW Development
- Extended NGNMPS Program of Record- Continuous Development to 4Q FY29
- Extended NGNMPS Program of Record- Integration, test & delivery to 4Q FY29
- Extended STORM Program of Record to 4Q FY29
- Extended STORM MAP SW Development to 4Q FY29
- Extended STORM Program of Record- Integration, test & delivery to 4Q FY29

2311:
- Added WASP NGNMPS IOC
- Extended WASP v5.1 Systems Development to 2Q FY24
- Extended WASP v5.1 Test & Evaluation to Q2 FY24

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy	Date: March 2024
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- Changed WASP v5.2 Systems Development from 1Q FY23-2Q FY28 to 3Q FY23-4Q FY25
- Changed WASP v5.2 Test & Evaluation from 1Q FY23-2Q FY28 to 3Q FY23-4Q FY25

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 0605215N / *Mission Planning*				Project (Number/Name) 2213 / *Mission Planning*			
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**
2213: *Mission Planning*	251.858	58.061	74.401	103.290	-	103.290	87.961	82.686	43.692	42.743	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Joint Mission Planning System (JMPS) (Proj 2213) is the designated automated mission planning system for Naval Aviation, supporting over 40 Type/Model/Series (T/M/S) of U.S. Navy and Marine Corps aircraft, expeditionary forces as well as Joint and Coalition forces. The Joint Mission Planning System - Maritime (JMPS-M) enables weapon system employment by providing the information, automated tools, and decision aids needed to rapidly plan aircraft, weapon, or sensor missions, load mission data into aircraft and weapons, conduct mission rehearsal, execute missions, and conduct post-mission analysis. The Joint Mission Planning System - Expeditionary (JMPS-E) is a scalable, tailorable, and collaborative web-based mission planning and execution monitoring tool for Amphibious Squadron staffs embarked with each Amphibious Ready Group and Expeditionary Strike Group. Electronic Kneeboard (EKB) is a mobile computing device configured with various software applications and features to support aircrew during pre-flight planning, in-flight re-planning and mission execution, and post-mission debriefing and analysis. Preflight mission planning, data loading, rehearsals, mission execution and post mission analyses are conducted at all appropriate security classification levels.

The Next Generation Naval Mission Planning System (NGNMPS) program will address critical capability gaps and deficiencies in the legacy JMPS that are required for modern 21st century integrated mission-centric and collaborative multi-domain mission planning, execution and analysis. The NGNMPS will replace Naval Aviation's legacy JMPS no later than FY 2027 while also affordably leveraging prior investments across the systems of systems to deliver integrated and collaborative capability. The NGNMPS will affordably address technological obsolescence while also delivering collaborative and automated capabilities in an integrated virtual collaborative data environment. The NGNMPS capability provides advanced multiple aircraft planning capabilities focused on emerging, high-threat mission areas. Current mission planning capabilities support individual aircraft and weapon initialization requirements. The emerging, near-peer threat environment demands a much more capable system that enables a team of aircraft to cooperate effectively across multiple mission areas, domains, and security levels. The NGNMPS will also leverage service-oriented architecture to provide revolutionary improvements in workflow, usability, cybersecurity. Additionally NGNMPS will provide information and decision aids needed to rapidly plan/employ/maximize effectiveness of aircraft/weapon/sensor/payload mission plans. This functionality includes advanced pre-mission rehearsal/ analysis, loading mission data into aircraft and weapons, dynamic replanning/retargeting against evolving threats in contested environments, and advanced post-mission debrief/ analysis. The NGNMPS will incorporate cross-domain solution capabilities. These mission planning, mission execution, and mission analysis functions meet the National Defense Strategy and Interim National Security Strategic Guidance key objectives. The NGNMPS will conduct preflight mission planning, data loading, rehearsals, mission execution and post mission analyses at all appropriate security classification levels.

The Standardized Tester of Reprogrammable Munitions (STORM) system (Proj 2213) replaces the legacy Common Munitions Built-in-Test (BIT)/Reprogramming Equipment (CMBRE) and provides USN/USMC forces the critical capability to perform built-in test and programming/reprogramming of various advanced weapons. The STORM system supports advanced operational capabilities, addresses legacy CMBRE system obsolescence, enhances cybersecurity posture to improve readiness, and improves sortie generation rate.

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 0605215N / *Mission Planning*	**Project (Number/Name)** 2213 / *Mission Planning*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Mission Planning Program Mgmt, Integration, and Test	9.180	1.330	0.000	0.000	0.000
Articles:	-	-	-	-	-
Description: Perform Mission Planning Program Management, and Integration and Test efforts supporting the Navy's system development, developmental testing/operational testing, integration, system-of-system testing, and managing Naval Mission Planning efforts. Life-cycle management efforts consist of development of program execution plans, development/integration of components provided by various developers into mission planning environments and testing of the integrated environment. ***FY 2024 Plans:*** Continue mission planning integration and testing, project management and system engineering for over 40 T/M/S that are supported by legacy JMPS. Transition from the Next Generation Naval Mission Planning System Section 804 mid-tier acquisition / Rapid Prototype to an established program of record. Continue conducting studies, analyses, integration, and tests to move Naval Mission Planning Systems into a single ecosystem supporting fleet needs. Conduct additional studies, analyses, integrations, and tests to meet emergent fleet security and aircraft interface/ data exchange requirements. ***FY 2025 Base Plans:*** N/A ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease in FY 2025 RDTE funding due to no additional developmental efforts for JMPS-M in preparation for end of life in FY 2027.					
Title: Mission Planning Framework (FW) and Common Components (CC) Development	6.988	0.000	0.000	0.000	0.000
Articles:	-	-	-	-	-
Description: This task continues development and integration of modernized mission planning software frameworks and architecture which provide the required core mission planning capabilities supporting all naval aircraft. Framework and architecture development tasks include: system engineering processes, management interface controls, software architectural analysis, requirements management and a centralized website for Mission Planning developers. Updating Common Component software into a modernized software environment and architecture will continue and also augment core mission planning capabilities supporting multiple T/M/S.					

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 0605215N / *Mission Planning*	**Project (Number/Name)** 2213 / *Mission Planning*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
FY 2024 Plans: N/A ***FY 2025 Base Plans:*** N/A ***FY 2025 OCO Plans:*** N/A					
Title: Next Generation Naval Mission Planning System (NGNMPS) Development	31.143	67.029	84.630	0.000	84.630
Articles:	-	-	-	-	-
Description: The Next Generation Naval Mission Planning System (NGNMPS) program will address critical capability gaps and deficiencies in the legacy JMPS that are required for modern 21st century integrated mission-centric and collaborative multi-domain mission planning, execution and analysis. NGNMPS will replace Naval Aviation's legacy JMPS no later than FY 2027 while also affordably leveraging prior investments across the systems of systems to deliver integrated and collaborative capability. NGNMPS will affordably address technological obsolescence while also delivering collaborative and automated capabilities in an integrated virtual collaborative data environment. NGNMPS capability provides advanced multiple aircraft planning capabilities focused on emerging, high-threat mission areas. Current mission planning capabilities support individual aircraft and weapon initialization requirements. The emerging, near-peer threat environment demands a much more capable system that enables a team of aircraft to cooperate effectively across multiple mission areas, domains, and security levels. NGNMPS will also leverage service-oriented architecture to provide revolutionary improvements in workflow, usability, cybersecurity, information and decision aids needed to rapidly plan/employ/maximize effectiveness of aircraft/weapon/sensor/payload mission plans; perform advanced pre-mission rehearsal/analysis; provide functionality to load mission data into aircraft and weapons; enable dynamic replanning/retargeting against evolving threats in contested environments; perform integrated and advanced post-mission debrief/analysis; support cross-domain capabilities; and support portability of mission planning, mission execution, and mission analysis functions to meet National Defense Strategy and Interim National Security Strategic Guidance key objectives. The NGNMPS will be integrating rapid prototyped capability developed under multiple S&T efforts (e.g., Future Naval Capability, Rapid Innovation Fund, Small Business Innovative Research) as those projects mature sufficiently to meet critical advanced warfighting needs. NGNMPS will complete Middle Tier Acquisition approach, per Section 804 of the Fiscal Year (FY) 2016 National					

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 0605215N / *Mission Planning*	**Project (Number/Name)** 2213 / *Mission Planning*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Defense Authorization Act (NDAA), as amended in FY 2017 NDAA (codified at 10 U.S.C. sub sec 2302 note) to prototype and deliver NGNMPS capabilities to Naval Aviation across multiple platforms. The NGNMPS program of record starts in FY 2024. ***FY 2024 Plans:*** In FY24, the NGNMPS will begin executing a Program of Record (PoR) which builds upon a completing 804 effort and is tightly aligned with joint mission planning investments and initiatives. The NGNMPS PoR anticipates using the Software Acquisition Pathway (governed by DoDI 5000.87) and plans to enter the execution phase in FY24. The FY24 budget and activities include advanced pre-mission rehearsal/analysis, loading mission data into aircraft and weapons, dynamic replanning/retargeting against evolving threats in contested environments, and advanced post-mission debrief/ analysis. Build upon and expand capabilities delivered under the Section 804 Mid-Tier Acquisition scheduled to complete concurrent with the beginning of this POR. Specific FY24 tasking includes: -Continue development, integration, test, and delivery of mission planning capabilities enabling complex mission planning for the warfighter. This continued development includes establishing the PoR systems engineering design, development of software incorporating additional mission areas such as Anti-Submarine Warfare or Amphibious Assault. Development activities would expand to include all appropriate security levels. -Continue development and expansion of a consolidated user interface and user experience for ease of use, reduced time to plan, as well as reduced training requirements. -Continue to implement data automation to improve time to plan, reduce errors, and allow aircrew to focus on critical decision making in the mission planning process. -Conduct non-recurring engineering design activities to implement NGNMPS functionality on mobile computing devices. -Continue to implement a modular, scalable service-oriented architecture to reduce development and sustainment costs while supporting cyber security hardening and resilience for compliance with cyber mandates.					

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 0605215N / *Mission Planning*	**Project (Number/Name)** 2213 / *Mission Planning*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
-Continue to develop and integrate micro-services to meet platform(s) requirements for new and enhanced mission planning capability required in a modernized and service-oriented architecture environment. -Develop and deliver software and hardware products supporting operations in both land-based and shipboard environments. This work includes the non-recurring engineering design required to support NGNMPS deployments aboard various classes of ships including CVN, LHA/LHD, and DDG class ships. Additionally the effort includes the engineering-design / network-design necessary for deployments in stand-alone, networked, and cloud-based environments. -Continue implementation of software DevSecOps and processes to achieve continuous integration & continuous deployment. The effort includes on-boarding development teams from other platforms (e.g., F/A-18, EA-18, E-2, V-22). -Establish test and evaluation laboratories and facilities necessary for the end-to-end test of NGNMPS functionality. -Fund test personnel and test squadron project officers necessary for end-to-end testing.					
FY 2025 Base Plans: In FY25, the NGNMPS will expand Program of Record (PoR) development for delivery of capabilities supporting additional mission areas and begin transition of JMPS common mission planning components to the NGNMPS service-oriented architecture. The FY25 budget and activities include: -Continue development, integration, test, and delivery of mission planning capabilities enabling complex mission planning for the warfighter. -Continued development of software to deliver capabilities supporting Anti-Submarine Warfare, Amphibious Assault and additional mission areas. Development activities will continue in all appropriate security levels. -Continue to develop and implement automated tools to improve time to plan, reduce errors, and allow aircrew to focus on critical decision making in the mission planning process. -Conduct engineering design and software development activities to implement NGNMPS functionality on mobile computing devices. -Continue to implement a modular, scalable service-oriented architecture to reduce development and sustainment costs while supporting cyber security hardening and resilience for compliance with cyber mandates.					

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
-Continue to develop and integrate micro-services to meet platform(s) requirements for new and enhanced mission planning capability required in a modernized and service-oriented architecture environment. -Develop and deliver software and hardware products supporting operations in both land-based and shipboard environments. This work includes any continued non-recurring engineering design required to support NGNMPS deployments aboard various classes of ships including CVN, LHA/LHD, and DDG class ships. Additionally the effort includes the software development, optimization, and network integration/compatibility necessary for deployments in stand-alone, networked, and cloud-based environments at all classification levels. - Conduct non-recurring engineering design activities to integrate with external systems -Continue implementation of software DevSecOps and processes to achieve continuous integration & continuous deployment. The effort includes on-boarding additional development teams from other platforms (e.g., P8, E-2, V-22, CH-53K, H-1, C-130), weapons (JDAM, SDB, LRASM), and common mission planning components (Communication, Navigation, Surveillance/Air Traffic Management (CNS/ATM), Tactical Aircraft Moving Map Capability (TAMMAC), ARC-210 ARC Fill Program, Marine Air Ground Task Force Agile Network Gateway Link (MANGL)). ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase in FY 2025 is due to expanded development and test activities with the ramp up of program of record to include the transition of JMPS component capabilities (CNS/ATM, TAMMAC, ARC-210 ARC Fill Program, MANGL) to the NGNMPS service-oriented architecture					
Title: Joint Mission Planning System Expeditionary (JMPS-E) ***Articles:*** ***Description:*** JMPS Expeditionary (JMPS-E): JMPS-E provides a scalable, tailorable, mission planning and execution monitoring tool for Amphibious Squadron staffs. The primary focus of this system is to provide an automated capability to assist planners with mission analysis, course of action development and automated creation of doctrinal orders based on planning data in the system. JMPS-E provides a digital map enabling better response times to changing plans, easier distribution of planning artifacts and a reduction in human error during the planning process. The variety and geographically separated nature of forces involved with Ship to Objective Maneuver (STOM) amplifies the need for web-based technologies to enable collaborative planning, improve overall situational awareness and enable the monitoring of mission execution from different locations. The primary outputs are tasking orders, route plans, battlespace geometries and decision briefs. The system will also incorporate modeling and simulation tools to rehearse and deconflict mission plans.	0.000 -	0.000 -	2.873 -	0.000 -	2.873 -

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
FY 2024 Plans: N/A ***FY 2025 Base Plans:*** Development, integration, testing and fielding of JMPS-E Version 3.1 including virtualization to transition legacy JMPS-E capabilities from the legacy JMPS framework to NGNMPS. Transition includes improved cybersecurity posture to comply with cyber mandates as well as improving collaboration across the Expeditionary Strike Group. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 increase is due to the restoration of JMPS-E funding lines for software modernization, on cycle hardware refresh to prevent obsolescence and associated support equipment.					
Title: Standardized Tester of Reprogrammable Munitions (STORM) (previously titled: Next Generation Common Munitions BIT Reprogramming Equipment (CMBRE) ***Articles:*** ***Description:*** The technology inherent to the legacy CMBRE is obsolete and cannot be sustained beyond 2025. In addition to sustainability issues and cyber security concerns, the Fleet also requires a more transportable, lighter weight and rugged test set that has the ability to service existing and future weapons with increased data transfer capability in austere operating environments. Formerly named "CMBRE Next Generation" the Standardized Tester of Reprogrammable Munitions (STORM) efforts enhance mission readiness and security, and generate improved flexibility, depth, and capacity for existing and emerging aviation weapon capabilities during the conduct of ship, shore, and ship-to-shore operations in both conventional and Distributed Aviation Operations environments. STORM will satisfy current and future fleet weapon support requirements, CONOPS, and cyber security mandates while affordably addressing legacy CMBRE system obsolescence. Prior to FY25, STORM is being pursued through a Middle Tier Acquisition approach, per Section 804 of the Fiscal Year (FY) 2016 National Defense Authorization Act (NDAA), as amended in FY 2017 NDAA (codified at 10 U.S.C. sub sec 2302 note) to prototype and deliver STORM capability to USN/USMC forces. The STORM Program of Record plans to use DoDI 5000.82 major capability acquisition pathway. The STORM program anticipates entering the acquisition process by 1QFY25.	10.750 -	6.042 -	15.787 -	0.000 -	15.787 -

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Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605215N / *Mission Planning*	**Project (Number/Name)** 2213 / *Mission Planning*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
FY 2024 Plans: Complete the Section 804 / Mid-Tier Acquisition and transition to program of record. Complete Munitions Application Program software development for weapons addressed under the Section 804 Mid-Tier Acquisition. Complete development, integration, and test of the STORM prototype. Initiate engineering activities to address discovery from the prototyping phase to support transition to program of record. ***FY 2025 Base Plans:*** Transition to program of record. Continue Munitions Application Program software development for all current munitions. Continue development, integration and test of STORM hardware / software components. Initiate non-recurring engineering activities to address emerging user requirements from the prototyping phase. Complete transition from 804 Middle-Tier Acquisition program to the program of record. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Funding increase in FY25 is due to transition of STORM from prototyping activities to Program Of Record and additional STORM MAP Software Development efforts.					
Accomplishments/Planned Programs Subtotals	58.061	74.401	103.290	0.000	103.290

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/2876: *Mission Planning*	25.092	39.180	46.106	-	46.106	55.648	48.614	51.079	52.164	Continuing	Continuing

Remarks

D. Acquisition Strategy

The initial Joint Mission Planning System (JMPS) development effort was a phased evolutionary approach. JMPS is a post Milestone III program and Initial Operational Capability (IOC) occurred in December 2005. Cost Plus Award Fee (CPAF) and Cost Plus Incentive Fee (CPIF) contracts were awarded during initial development. During the down-select process, one contractor was selected to develop the JMPS architecture framework and Version 1.0 basic flight planning components. Additional phases focused on strike planning requirements (i.e., support Precision Guided Missions and other tactical data intensive missions) in order to migrate platforms from legacy mission planning systems to JMPS. The USAF and USN continued the joint development of JMPS Frameworks via the USAF Mission Planning Enterprise Contract, which is used for JMPS Framework software development. The USN integration and fielding strategy supports a Mission Planning Environment (MPE) focus, where the JMPS Framework and other software components are integrated, tested, and fielded by T/M/S. Preflight mission planning, data loading, rehearsals, mission execution and post mission analyses are conducted at all appropriate security classification levels. As platforms plan their migration to newer versions of JMPS, the

acquisition strategy, plan, and program baseline will be updated in order to divest legacy mission planning systems, meet the evolving requirements for integrated mission planning, and lower total life cycle cost. JMPS End of Life (EOL) is planned for 2027. This necessitates the development of a replacement system, Next Generation Naval Mission Planning System (NGNMPS).

The NGNMPS will provide a modernized mission planning system, which supports multi-domain mission planning, execution, management, and mission analysis capabilities required by the 21st century warfighter. The NGNMPS will address critical capability gaps and deficiencies in the legacy JMPS that are required for modern 21st century integrated mission-centric and multi-domain collaborative mission planning, execution and analysis. The NGNMPS will replace Naval Aviation's legacy JMPS no later than 2027 while also affordably leveraging prior investments across the systems of systems to deliver integrated and collaborative capability. The NGNMPS will affordably address technological obsolescence while also delivering collaborative and automated capabilities in an integrated virtual collaborative data environment. The NGNMPS will also leverage service-oriented architecture to provide revolutionary improvements in workflow, usability, cybersecurity, information and decision aids needed to rapidly plan/employ/maximize effectiveness of aircraft/weapon/sensor/payload mission plans; perform advanced pre-mission rehearsal/ analysis; provide functionality to load mission data into aircraft and weapons; enable dynamic replanning/retargeting against evolving threats in contested environments; perform integrated and advanced post-mission debrief/analysis; support cross-domain capabilities; and support portability of mission planning, mission execution, and mission analysis functions. Preflight mission planning, data loading, rehearsals, mission execution and post mission analyses are conducted at all appropriate security classification levels.

The NGNMPS will address shortfalls in the family of legacy systems (including JMPS) by modernizing the foundational software to a services based architecture that will improve composability of software applications to support advanced mission planning, dynamic re-planning, mission execution, and post-mission analysis that is required to support the National Defense Strategy and Interim National Security Strategic Guidance. Adopting composable infrastructure that includes computing, storage and network elements treated as individual services allows greater speed and flexibility when performing tasks, allows software applications to operate independently of a single hardware platform, and supports affordable component re-use and supportability across the family of systems. The NGNMPS Program of Record plans to use the Software Acquisition Pathway for development, integration, test, and delivery of capabilities. The NGNMPS program anticipates entering the Software Acquisition Pathway Execution Phase by 2QFY24. Program of Record development, integration, test, and delivery activities continue in FY25.

The CMBRE program was designed to provide USN/USMC units with the critical capability to perform built-in-test and programming / reprogramming of various weapons. Because the legacy CMBRE is obsolete and cannot be sustained beyond 2025 a follow-on program, the Standardized Tester of Reprogrammable Munitions (STORM) will replace CMBRE and support current and future fleet weapon support requirements, CONOPS, and will comply with Cyber security mandates while affordably addressing legacy CMBRE system obsolescence. The STORM Program of Record plans to use DoDI 5000.82 major capability acquisition pathway. The STORM program anticipates entering the acquisition process by 1QFY24. CMBRE obsolescence issues are forecast to pose a significant obstacle to system sustainment beyond FY25. The follow-on Standardized Test of Reprogrammable Munitions (STORM) is intended to replace CMBRE and satisfy current and future fleet weapon support requirements and cybersecurity mandates while resolving CMBRE obsolescence. STORM transitions from prototyping to program of record in FY24.

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 0605215N / *Mission Planning*	**Project (Number/Name)** 2213 / *Mission Planning*

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
Primary Software Development/JMPS Expeditionary	C/CPFF	Leidos : Reston, VA	1.598	0.000		0.000		0.000		-		0.000	0.000	1.598	1.618
Primary Software Development/JMPS Expeditionary	C/CPAF	BAE : San Diego, CA	2.164	0.000		0.000		2.353	Feb 2025	-		2.353	Continuing	Continuing	Continuing
JMPS-M Primary Software Development	C/CPFF	IDT : Arlington, VA	3.711	0.000	Feb 2023	0.200	Feb 2024	0.000		-		0.000	Continuing	Continuing	Continuing
JMPS-M Primary Software Development	WR	NAWCWD : Point Mugu, CA	0.000	0.000		0.220	Nov 2023	0.000		-		0.000	0.000	0.220	-
JMPS-M Primary Software Development	WR	NAWCWD : China Lake, CA	0.649	0.148	Dec 2022	0.075	Dec 2023	0.000		-		0.000	Continuing	Continuing	Continuing
NGNMPS Primary Software Development	C/CPFF	ATC : Eden Prairie, MN	0.260	0.000		0.000		0.000		-		0.000	0.000	0.260	0.260
NGNMPS Primary Software Development, FW	C/CPFF	Northrop Grumman : Long Beach, CA	4.970	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
NGNMPS Primary Software Development	C/CPFF	DCS : Alexandria, VA	5.951	1.412	Jan 2023	4.848	Jan 2024	5.952	Jan 2025	-		5.952	Continuing	Continuing	Continuing
NGNMPS Primary Software Development	C/CPFF	AMEWAS : California, MD	1.775	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
NGNMPS Primary Software Development	C/CPFF	MTI : Park City, UT	4.470	1.465	Feb 2023	1.950	Feb 2024	2.750	Feb 2025	-		2.750	Continuing	Continuing	Continuing
NGNMPS Primary Software Development	C/CPFF	John's Hopkins University : Laurel, MD	3.372	0.892	Jan 2023	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
NGNMPS Primary Software Development	WR	NAWCWD : Point Mugu, CA	16.644	5.350	Nov 2022	5.328	Nov 2023	5.438	Nov 2024	-		5.438	Continuing	Continuing	Continuing
NGNMPS Primary Software Development	C/CPFF	VARIOUS : VARIOUS	6.590	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
NGNMPS Primary Software Development	C/CPFF	Northrop Grumman : Linthicum Heights, MD	11.947	0.000		0.000		0.000		-		0.000	0.000	11.947	-

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 0605215N / *Mission Planning*	Project (Number/Name) 2213 / *Mission Planning*	

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
NGNMPS Primary Software Development	C/CPFF	Northrop Grumman : Mclean, VA	16.000	11.741	Dec 2022	0.000		0.000		-		0.000	0.000	27.741	-
NGNMPS Primary Software Development	TBD	TBD : TBD	0.000	0.000		19.386	Dec 2023	20.841	Dec 2024	-		20.841	0.000	40.227	-
NGNMPS Primary Software Development/ WASP Migration	TBD	TBD : TBD	0.000	0.000		0.000		5.525	Jan 2025	-		5.525	0.000	5.525	-
NGNMPS Primary Software Development (SEIC)	C/CPFF	Leidos : Orlando, FL	19.756	3.152	Feb 2023	3.285	Feb 2024	5.873	Feb 2025	-		5.873	Continuing	Continuing	Continuing
NGNMPS Primary Software Development/ (Human Factors)	C/CPFF	Georgia Technical Research Institute (GTRI) : Atlanta, GA	4.072	0.685	Mar 2023	1.025	Mar 2024	1.960	Mar 2025	-		1.960	Continuing	Continuing	Continuing
NGNMPSPrimary Software Development	WR	NRL/Inc Lab : Washington DC	4.156	1.385	Nov 2022	1.165	Nov 2023	1.885	Nov 2024	-		1.885	Continuing	Continuing	Continuing
NGNMPS Primary Software Development	C/CPFF	Carnegie Mellon University : Pittsburgh, PA	1.518	0.499	Mar 2023	0.750	Apr 2024	0.928	Apr 2025	-		0.928	Continuing	Continuing	Continuing
NGNMPS Primary Software Development	WR	NIWC PAC : San Diego, CA	4.860	1.622	Nov 2022	1.150	Nov 2023	1.173	Nov 2024	-		1.173	Continuing	Continuing	Continuing
NGNMPS Primary Software Development	MIPR	Elmendorf AFB : Jber, AK	4.075	1.625	Jan 2023	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
NGNMPS Primary Software Development	C/CPFF	2-Circle : Arlington, VA	2.275	0.850	Mar 2023	0.700	Apr 2024	0.980	Apr 2025	-		0.980	Continuing	Continuing	Continuing
NGNMPS Primary Software Development	C/CPFF	Progeny Systems Corp : Manassas, VA	0.000	0.000		1.350	Feb 2024	1.998	Feb 2025	-		1.998	Continuing	Continuing	Continuing
NGNMPS Primary Software Development	C/CPFF	BAE Systems : San Diego, CA	0.000	0.000		1.250	Mar 2024	3.652	Mar 2025	-		3.652	Continuing	Continuing	Continuing
NGNMPS Primary Software Development	C/CPAF	CENTAURI LLC : Chantilly, VA	0.000	0.000		0.850	Jan 2024	1.282	Jan 2025	-		1.282	Continuing	Continuing	Continuing
NGNMPS Primary Software Development	C/CPFF	IDT : Arlington, VA	0.000	0.000		0.000		1.628	Jan 2025	-		1.628	Continuing	Continuing	Continuing
STORM Development	MIPR	Dep Of Energy : Kansas City, MO	20.058	6.253	Nov 2022	2.050	Nov 2023	6.825	Nov 2024	-		6.825	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 0605215N / *Mission Planning*	**Project (Number/Name)** 2213 / *Mission Planning*

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
STORM MAP SW Development	C/CPFF	Raytheon : Tuscon, AZ	3.850	1.250	Jan 2023	1.792	Jan 2024	5.399	Jan 2025	-		5.399	Continuing	Continuing	Continuing
Multi Level Mission Planning	Various	NSMA : NSMA	0.000	0.000		6.353	Nov 2023	5.871	Nov 2024	-		5.871	Continuing	Continuing	Continuing
		Subtotal	144.721	38.329		53.727		82.313		-		82.313	Continuing	Continuing	N/A

Remarks

FY 2025 NGNMPS prime development contract supports continued development of micro-services and continuous software integration for advanced mission planning, execution, dynamic re-planning, and analysis capabilities.
FY 2025 continues to support incremental funding for JMPS Primary Software Development efforts awarded via multiple contracts for service oriented architecture development.
FY 2025 supports incremental funding for the NGNMPS Primary Software Development efforts awarded via a competitive contract award. Funding in FY 2025 supports NGNMPS program phasing required to transition legacy JMPS-M platforms to NGNMPS before JMPS-M end of life while also developing advanced mission planning, execution, dynamic re-planning, and analysis capabilities required to support the National Defense Strategy and Interim National Security Strategic Guidance. The performing activities and locations are currently various to support a competitive contracting strategy. Once awarded, the performing activities and locations will be updated to reflect the selected contractors.
Multi-Level Mission Planning funding has been realigned from other budgets for increased transparency. This capability facilitates mission management spanning multiple classified domains; further details are classified.

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
JMPS-M Systems Engineering	WR	NAWCAD : Patuxent River, MD	8.260	1.239	Nov 2022	0.310	Nov 2023	0.000		-		0.000	Continuing	Continuing	Continuing
JMPS-M Systems Eng & Integration	WR	NAWCWD : Point Mugu, CA	1.860	1.562	Nov 2022	0.000		0.000		-		0.000	0.000	3.422	-
JMPS-M Systems Engineering	MIPR	Hill AFB : Ogden, UT	0.151	0.045	Nov 2022	0.075	Nov 2023	0.000		-		0.000	Continuing	Continuing	Continuing
JMPS-M Integrated Logistics Support	WR	NAWCWD : Point Mugu, CA	1.284	0.180	Nov 2022	0.075	Nov 2023	0.000		-		0.000	Continuing	Continuing	Continuing
NGNMPS Systems Eng & Integration	WR	NAWCWD : Point Mugu, CA	11.279	0.220	Nov 2022	2.143	Nov 2023	2.183	Nov 2024	-		2.183	Continuing	Continuing	Continuing
NGNMPS Systems Engineering	WR	NAWCAD : Patuxent River, MD	5.770	1.625	Nov 2022	2.356	Nov 2023	2.399	Nov 2024	-		2.399	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy		Date: March 2024
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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
NGNMPS Integrated Logistics Support	WR	NAWCAD : Patuxent River, MD	0.763	0.220	Nov 2022	0.283	Nov 2023	0.290	Nov 2024	-		0.290	Continuing	Continuing	Continuing
NGNMPS Integrated Logistics Support	WR	NAWCWD : Point Mugu, CA	0.505	0.000		0.283	Nov 2023	0.290	Nov 2024	-		0.290	Continuing	Continuing	Continuing
NGNMPS Systems Engineering	C/CPFF	Zenetex : Herndon, VA	3.887	1.151	Jan 2023	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
NGNMPS Systems Engineering	TBD	TBD : TBD	0.000	0.000		1.014	Jan 2024	1.034	Jan 2025	-		1.034	0.000	2.048	-
NGNMPS Systems Engineering	C/CPFF	MITRE : Lexington Park, MD	1.855	0.650	Jan 2023	0.415	Jan 2024	0.423	Jan 2025	-		0.423	Continuing	Continuing	Continuing
NGNMPS Systems Engineering	WR	NAWCWD : China Lake, CA	0.000	0.000		0.659	Nov 2023	0.674	Nov 2024	-		0.674	0.000	1.333	-
NGNMPS Systems Engineering	C/CPFF	AMERICAN SYSTEMS CORP : Chantilly, VA	0.000	0.000		0.000		0.316	Feb 2025	-		0.316	0.000	0.316	-
NGNMPS Systems Engineering	C/CPFF	TEKLA RESEARCH, INC. : Fredericksburg, VA	0.000	0.000		0.000		0.295	Jun 2025	-		0.295	0.000	0.295	-
NGNMPS Systems Engineering	WR	NIWC PACIFIC : San Diego, CA	0.000	0.000		0.000		0.675	Nov 2024	-		0.675	0.000	0.675	-
Systems Engineering/ JMPS Expeditionary	WR	NAWCWD : Point Mugu, CA	0.740	0.000		0.000		0.220	Nov 2024	-		0.220	0.000	0.960	-
Systems Engineering/ JMPS Expeditionary	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.000		0.150	Nov 2024	-		0.150	0.000	0.150	-
STORM Systems Engineering Support	WR	NAWCWD : Point Mugu, CA	2.070	0.825	Nov 2022	0.625	Nov 2023	0.639	Nov 2024	-		0.639	Continuing	Continuing	Continuing
STORM Integrated Logistics Support	WR	NAWCAD : Patuxent River, MD	1.319	0.480	Nov 2022	0.350	Nov 2023	0.359	Nov 2024	-		0.359	Continuing	Continuing	Continuing
		Subtotal	39.743	8.197		8.588		9.947		-		9.947	Continuing	Continuing	N/A

Remarks

FY 2025 supports NGNMPS systems engineering and design for ILS activities at multiple government and contractor sites. Funding in FY2025 support NGNMPS program phasing required to transition legacy JMPS-M platforms to NGNMPS before JMPS-M end of life while also developing advanced mission planning, execution, dynamic re-planning, and analysis capabilities required to support the National Defense Strategy and Interim National Security Strategic Guidance.

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 0605215N / *Mission Planning*	Project (Number/Name) 2213 / *Mission Planning*	

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	NAWCWD : Point Mugu, CA	33.210	4.695	Nov 2022	5.904	Nov 2023	3.790	Nov 2024	-		3.790	Continuing	Continuing	Continuing
Operational Test & Evaluation (OT&E)	WR	COMOPTEVFOR : Norfolk, VA	5.292	0.441	Nov 2022	0.560	Nov 2023	0.571	Nov 2024	-		0.571	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	WR	NAWCAD : Patuxent River, MD	4.805	1.457	Nov 2022	1.796	Nov 2023	1.830	Nov 2024	-		1.830	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	WR	Dep Of Energy : Kansas City, MO	4.000	1.732	Nov 2022	1.011	Nov 2023	2.350	Nov 2024	-		2.350	Continuing	Continuing	Continuing
		Subtotal	47.307	8.325		9.271		8.541		-		8.541	Continuing	Continuing	N/A

Remarks

Test and Evaluation: Funding in FY 2025 supports the continuation of STORM system test activities as well as NGNMPS program phasing required to transition legacy JMPS-M platforms to NGNMPS before JMPS-M end of life while also developing advanced mission planning, execution, dynamic re-planning, and analysis capabilities required to support the National Defense Strategy and Interim National Security Strategic Guidance.

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
JMPS-M Program Management Support and Travel	WR	NAWCAD : Patuxent River, MD	12.088	0.000	Nov 2022	0.200	Nov 2023	0.000		-		0.000	Continuing	Continuing	Continuing
Program Management Support and Travel	WR	NAWCWD : China Lake, CA	1.483	0.421	Nov 2022	0.175	Nov 2023	0.000		-		0.000	Continuing	Continuing	Continuing
NGNMPS Program Management Support and Travel	WR	NAWCAD : Patuxent River, MD	0.000	0.000		1.405	Nov 2023	1.433	Nov 2024	-		1.433	0.000	2.838	-
NGNMPS Program Management Support	C/CPFF	Ausley Associates : Lexington Park, MD	4.036	0.706	May 2023	0.000	May 2024	0.000		-		0.000	Continuing	Continuing	Continuing
NGNMPS Program Management Support	C/CPFF	Precise : Lexington Park, MD	0.000	0.000		1.035	May 2024	1.056	May 2025	-		1.056	0.000	2.091	-
Program Management Support and Travel	WR	NAWCAD : Patuxent River, MD	2.480	2.083	Nov 2022	0.000		0.000		-		0.000	0.000	4.563	-
		Subtotal	20.087	3.210		2.815		2.489		-		2.489	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 0605215N / *Mission Planning*	Project (Number/Name) 2213 / *Mission Planning*	

	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	251.858	58.061		74.401		103.290		-		103.290	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 0605215N / *Mission Planning*	**Project (Number/Name)** 2213 / *Mission Planning*

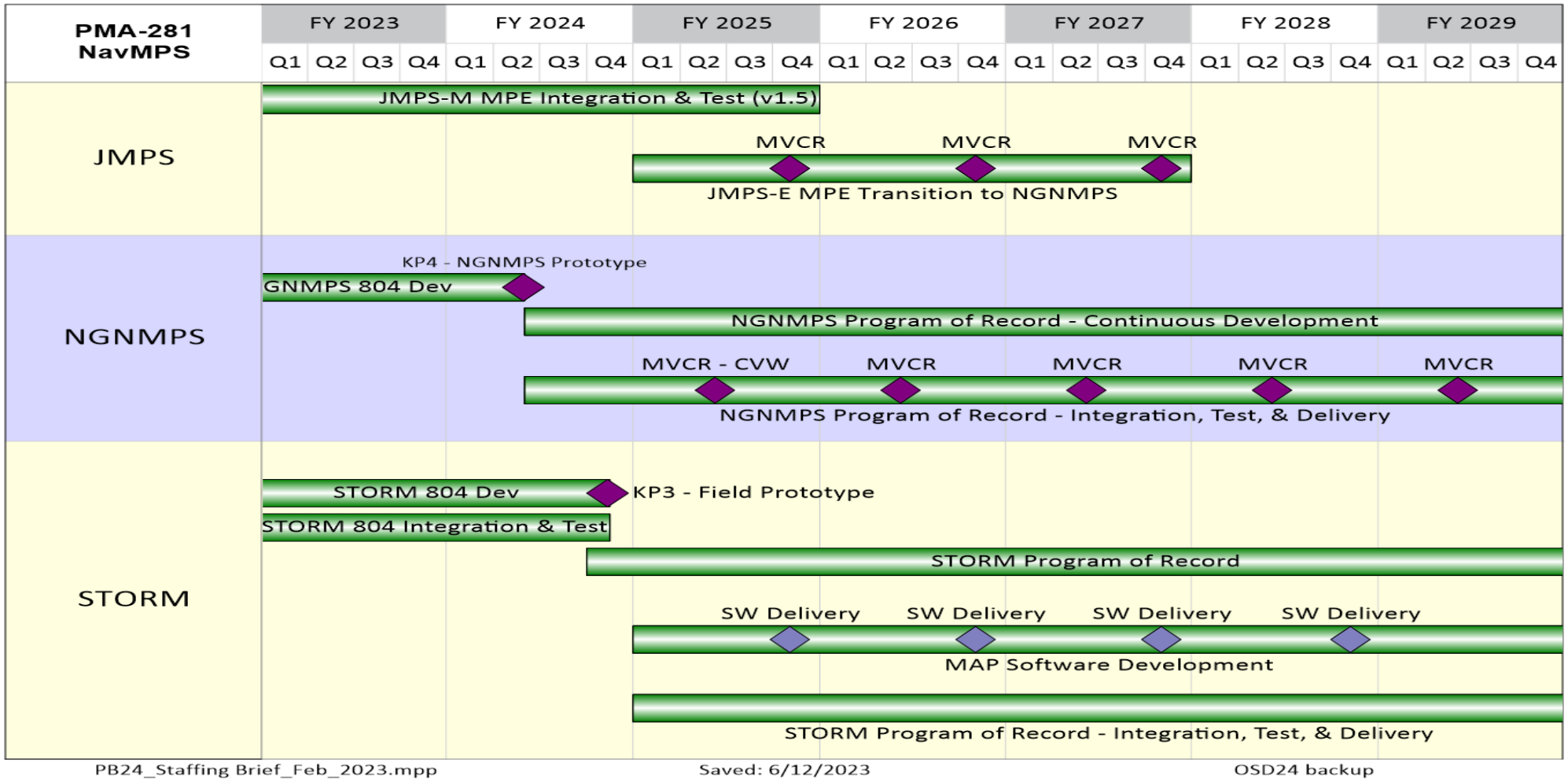

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605215N / *Mission Planning*	**Project (Number/Name)** 2213 / *Mission Planning*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Joint Mission Planning Systems (JMPS)				
JMPS Mission Planning Environment (MPE) Development: JMPS MPE Integration and Test: MPE Integration (V1.5.X)	1	2023	4	2025
JMPS Mission Planning Environment (MPE) Development: JMPS MPE Integration and Test: JMPS-E MPE Transition to NGNMPS	1	2025	4	2027
Acquisition Milestones- JMPS-E: Minimum Viable Capability Release-1	4	2025	4	2025
Acquisition Milestones- JMPS-E: Minimum Viable Capability Release-2	4	2026	4	2026
Acquisition Milestones- JMPS-E: Minimum Viable Capability Release-3	4	2027	4	2027
Acquisition Milestones- Next Generation Naval Mission Planning System: KP3.5-Advanced Net Enabled Weapon mission planning capability	1	2023	1	2023
Acquisition Milestones- Next Generation Naval Mission Planning System: KP4-NGNMPS Prototype	2	2024	2	2024
Acquisition Milestones- Next Generation Naval Mission Planning System: Minimum Viable Capability Release- Carrier Air Wing	2	2025	2	2025
Acquisition Milestones- Next Generation Naval Mission Planning System: Minimum Viable Capability Release-1	2	2026	2	2026
Acquisition Milestones- Next Generation Naval Mission Planning System: Minimum Viable Capability Release-2	2	2027	2	2027
Acquisition Milestones- Next Generation Naval Mission Planning System: Minimum Viable Capability Release-3	2	2028	2	2028
Acquisition Milestones- Next Generation Naval Mission Planning System: Minimum Viable Capability Release-4	2	2029	2	2029
NGNMPS Primary Software Development: NGNMPS PoR Integration, Test & Delivery	3	2023	4	2027
NGNMPS Primary Software Development: NGNMPS 804 Development	1	2023	2	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 0605215N / *Mission Planning*	**Project (Number/Name)** 2213 / *Mission Planning*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
NGNMPS Primary Software Development: NGNMPS Program of Record- Continuous Development	3	2024	4	2027
Acquisition Milestones- STORM: KP3- Field STORM Prototype	3	2024	3	2024
Acquisition Milestones- STORM: SW Delivery- 1	4	2025	4	2025
Acquisition Milestones- STORM: SW Delivery- 2	4	2026	4	2026
Acquisition Milestones- STORM: SW Delivery- 3	4	2027	4	2027
Acquisition Milestones- STORM: SW Delivery- 4	4	2028	4	2028
STORM Development: STORM 804 Development	1	2023	3	2024
STORM Development: STORM 804 Integration & Test	1	2023	3	2024
STORM Development: STORM MAP SW Development	1	2024	4	2029
STORM Development: STORM PoR Integration, Test & Delivery	1	2024	4	2029
STORM Development: STORM Program of Record	4	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 0605215N / *Mission Planning*	Project (Number/Name) 2311 / *Stores Planning and Weaponeering Module*	

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
2311: *Stores Planning and Weaponeering Module*	53.782	11.986	12.047	12.100	-	12.100	12.241	12.392	12.721	12.985	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Weaponeering and Stores Planning (WASP) components are integrated software products that allow aircrew to determine the best combinations of weapons and delivery conditions to achieve the desired level of target damage, eliminate weapon delivery solutions that violate aircraft Type/Model/Series (T/M/S) specific safety-of-flight envelopes, and perform detailed weapons employment planning. The WASP software is approved by NAVAIR Airworthiness and Cybersafe Office (formerly AIR 4.0P) as a flight clearance implementation system for the F/A-18 A, A+, A++, B, C, C+, D, D (RC), E, F, EA-18G. The WASP software includes potential support for other platforms to include F-35, P-8, AH-1, and other fixed wing and rotary wing platforms. The WASP software components will alert pilots if their planned weapon release conditions meet flight clearance limits, will result in bomb-to-bomb collisions, bomb-to-aircraft collisions, aircraft overstress, or excessive risk of aircraft loss/damage in the event of fuze early bursts. Weapon employment planning is fundamental to the Joint Capability Area of Force Application and joint mission areas of Strike and Amphibious Warfare. The WASP software provides the Navy and Marine Corps with weaponeering capabilities that are critical requirements for Interdiction, Armed Reconnaissance and Close Air Support mission planning. Therefore, WASP product availability is critical to successful employment of the Joint Mission Planning System (JMPS) for the F/A-18 A-F and EA-18G. The WASP product encompasses a multitude of Government Furnished Information software components and tools including aircraft target maneuver simulations and weapon flyout models. The WASP software products will require updates as emergent requirements for new aircraft T/M/S, stores and weapons are approved, new flight clearances/restrictions are issued by Naval Air Systems Command and cyber security mandates are released. FY 2024 and out includes funding for the research and development in order to develop WASP for other Navy and Marine Corps platforms, and support WASP development and integration with the Next Generation Naval Mission Planning System (NGNMPS).

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Product Development	5.626	5.640	5.606	0.000	5.606
Articles:	-	-	-	-	-
Description: Includes associated system engineering design, development, installation, integration and software development for Weaponeering and Stores Planning (WASP) components to support F/A-18 A-F and EA-18G. Provide domain engineering support for weapons separation, aircraft loads, flutter, fuzing and Safe Escape Automation Layer (SEAL)for application to WASP. Provide analysis of new requirements, allocation of requirements, design oversight, and life cycle management of the WASP program. Develop new aircraft configuration, aircraft loading, store release and delivery planning components for F/A-18 A-F and EA-18G, and implement new flight clearances and flight restrictions issued by NAVAIRSYSCOM. Provide configuration management, system administration, quality assurance, documentation, metrics and software					

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 0605215N / *Mission Planning*	**Project (Number/Name)** 2311 / *Stores Planning and Weaponeering Module*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
risk management for WASP. Acquire, integrate and modify numerous Government Furnished Information (GFI) software components and tools (aircraft target maneuver simulations, weapon flyout models, etc.) that are used for the WASP software development. Integrate WASP with weapons mission planning systems as required. ***FY 2024 Plans:*** Conduct requirements definition of WASP 5.2 for an FY 2025 release to the fleet with continuing database updates and defect corrections. Fund requirements definition and system development/migration of full WASP capabilities to the NGNMPS framework. ***FY 2025 Base Plans:*** Complete requirements definition of WASP 5.2 and conduct software development for an FY 2025 release to the fleet. Continue WASP database updates, software patches and defect corrections. Complete requirements definition as well as start software development and system development/migration for WASP capabilities to the NGNMPS framework. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Slight decrease in Product Development funding due to completion of requirements definition of WASP 5.2					
Title: Test and Evaluation (T&E) ***Articles:*** ***Description:*** Provide test and evaluation for unit and system level testing; functional qualification testing; safety of flight certification testing; integration and standards compliance testing for WASP versions. Provide JMPS-M and Next Generation Naval Mission Planning System Integration test support. Provide testing and test support to ensure all components (to include internally developed software, externally developed GFI) comply with Department of Navy (DoN) and Department of Defense (DoD) software mandates and directives. These include Integrated Shipboard Network System IT-21, and Cyber Risk Management Framework (RMF). ***FY 2024 Plans:*** Complete test and evaluations of multiple database updates to V5.1. Continue to develop requirements of WASP V5.2 to support an FY25 release to Fleet and automated test framework. ***FY 2025 Base Plans:***	2.839 -	2.907 -	2.972 -	0.000 -	2.972 -

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 0605215N / *Mission Planning*	**Project (Number/Name)** 2311 / *Stores Planning and Weaponeering Module*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Complete test and evaluations of multiple database updates to fleet deployed legacy WASP V5.X. Develop test documentation and conduct test and evaluation activities to support an FY25 release to Fleet. Continue development and usage of an automated test framework. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Slight increase in test and evaluation due to multiple database updates to fleet deployed legacy WASP V5.X, continuing test and evaluation of WASP V5.2 for FY25 fleet release and initial investment into automated test framework.					
Title: Systems Engineering Support ***Articles:*** ***Description:*** Provide systems engineering support, which includes requirements definition and analysis, compliance with Naval Air Systems Command systems engineering technical review processes, acquisition documentation development, cost, schedule and performance management, and compliance with external directives. Provide travel for government personnel. ***FY 2024 Plans:*** Continue Systems Engineering support to the WASP for future software releases to the fleet and support legacy WASP. Develop integration plans with services architecture and NGNMPS. Provide continued support for multiple database releases. ***FY 2025 Base Plans:*** Continue Systems Engineering support to the WASP for future software releases to the fleet. Develop integration plans with micro-services architecture for integration into NGNMPS. Provide continued support for database updates, software patches and defect corrections. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Slight increase in Systems Engineering due to continued support and development of legacy WASP as well as the development of additional integration plans with services architecture and NGNMPS.	3.221 -	3.275 -	3.297 -	0.000 -	3.297 -
Title: Program Management	0.300	0.225	0.225	0.000	0.225

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 0605215N / *Mission Planning*	**Project (Number/Name)** 2311 / *Stores Planning and Weaponeering Module*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Articles:	-	-	-	-	-
Description: Provide program management support, which includes requirements definition and analysis, compliance with Naval Air Systems Command systems engineering technical review processes, acquisition documentation development, cost, schedule and performance management, and compliance with external directives. Provide travel for government personnel. ***FY 2024 Plans:*** Continue project management support to the WASP for future software releases to the fleet. Develop integration plans with services architecture and NGNMPS. Provide continued support for multiple database releases. ***FY 2025 Base Plans:*** Continue project management support to the WASP for future software releases to the fleet. Develop integration plans with services architecture and NGNMPS. Provide continued support for multiple database releases. ***FY 2025 OCO Plans:*** N/A					
Accomplishments/Planned Programs Subtotals	11.986	12.047	12.100	0.000	12.100

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Weaponeering and Stores Planning (WASP) products, delivered quarterly, are developed in-house by NAVAIR consisting of Naval Air Warfare Center Aircraft Division and Naval Air Warfare Center Weapons Division engineers and support contractors. The team has migrated to a smaller government team that provides functional expertise in aircraft safety-of-flight (air-vehicle stores compatibility, weapons separation, aircraft aerodynamic flutter, ground/flight loads, authorized fuze arm times, aircraft SEAL), and guided weapons employment, with the majority of the software development conducted by various contractors. The Government, engineering, test, and support teams (test facilities, functional qualification testing and certification/accreditation test) are supplemented with contractor labor.

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 0605215N / *Mission Planning*	**Project (Number/Name)** 2311 / *Stores Planning and Weaponeering Module*

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
Product Development	WR	Naval Air Warfare Center Aircraft Division NAWCAD : Patuxent River, MD	0.679	0.114	Nov 2022	0.136	Nov 2023	0.145	Nov 2024	-		0.145	Continuing	Continuing	Continuing
Product Development	MIPR	Air Force Seek Eagle : Hill Air Force Base, UT	0.278	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Primary Software Development	C/CPFF	DCS Corp : Alexandria, VA	2.367	0.000		0.000		0.000		-		0.000	0.000	2.367	2.367
Product Development (V4.X/V5.X)	C/CPFF	DCS Corp : Alexandria, VA	26.220	5.512	Mar 2023	5.504	Mar 2024	5.461	Mar 2025	-		5.461	Continuing	Continuing	Continuing
		Subtotal	29.544	5.626		5.640		5.606		-		5.606	Continuing	Continuing	N/A

Remarks

The FY 2025 Product Development for WASP Major Version (V5.2) effort is associated with the development of WASP V5.2 and multiple minor builds to support fielded WASP systems.

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
System Engineering and Program Support	WR	NAWCAD : Patuxent River, MD	7.297	1.613	Nov 2022	1.635	Nov 2023	1.650	Nov 2024	-		1.650	Continuing	Continuing	Continuing
Government Engineering Support: Guided Weapons	WR	Naval Air Warfare Center Weapons Division NAWCWD : China Lake, CA	0.291	0.000		0.030	Nov 2023	0.033	Nov 2024	-		0.033	Continuing	Continuing	Continuing
Systems Engineering Support	C/CPFF	KBRwyle : Houston, TX	1.220	1.553	Mar 2023	1.555	Mar 2024	1.558	Mar 2025	-		1.558	Continuing	Continuing	Continuing
Govt Engineering Support: Mission Planning Environment Integration	WR	NAWCWD : Point Mugu, CA	0.470	0.055	Nov 2022	0.055	Nov 2023	0.056	Nov 2024	-		0.056	Continuing	Continuing	Continuing
		Subtotal	9.278	3.221		3.275		3.297		-		3.297	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 0605215N / *Mission Planning*	**Project (Number/Name)** 2311 / *Stores Planning and Weaponeering Module*

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

Remarks

The Support costs in FY 2025 are associated with the development of WASP V5.2 and multiple minor builds to support fielded WASP systems.

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 : Patuxent River, MD	5.980	0.941	Nov 2022	0.997	Nov 2023	1.015	Nov 2024	-		1.015	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	C/CPFF	DCS Corp : Alexandria, VA	5.160	0.765	Mar 2023	0.775	Mar 2024	0.800	Mar 2025	-		0.800	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	C/CPFF	KBRwyle : Houston, TX	0.812	1.133	Mar 2023	1.135	Mar 2024	1.157	Mar 2025	-		1.157	Continuing	Continuing	Continuing
		Subtotal	11.952	2.839		2.907		2.972		-		2.972	Continuing	Continuing	N/A

Remarks

The FY 2025 Test and Evaluation costs for WASP Major Version (V5.2) effort is associated with the development of WASP V5.2 and multiple minor builds to support fielded WASP systems.

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	C/CPFF	Precise : Lexington Park, MD	2.068	0.100	May 2023	0.100	May 2024	0.100	May 2025	-		0.100	Continuing	Continuing	Continuing
Program Management Support	WR	NAWCAD : Patuxent River, MD	0.825	0.175	Nov 2022	0.100	Nov 2023	0.100	Nov 2024	-		0.100	Continuing	Continuing	Continuing
Travel	Various	NAVAIR : Patuxent River, MD	0.115	0.025	Nov 2022	0.025	Nov 2023	0.025	Nov 2024	-		0.025	Continuing	Continuing	Continuing
		Subtotal	3.008	0.300		0.225		0.225		-		0.225	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 0605215N / *Mission Planning*	Project (Number/Name) 2311 / *Stores Planning and Weaponeering Module*	

	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	53.782	11.986		12.047		12.100		-		12.100	Continuing	Continuing	N/A

Remarks

Prior to FY17, PU 2311 was budgeted under PE 0604215N.

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 0605215N / *Mission Planning*	**Project (Number/Name)** 2311 / *Stores Planning and Weaponeering Module*

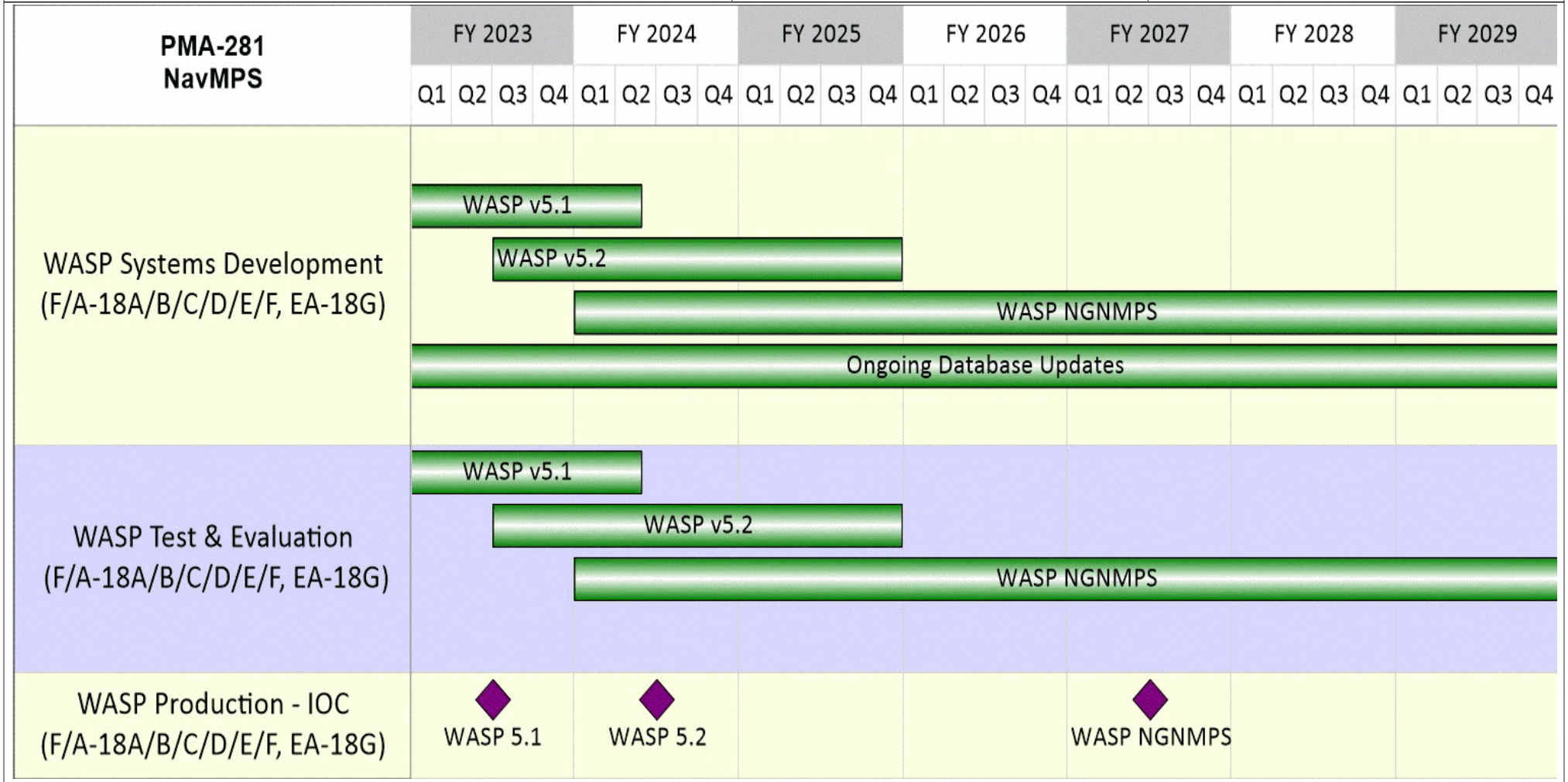

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0605215N / *Mission Planning*	**Project (Number/Name)** 2311 / *Stores Planning and Weaponeering Module*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Stores Planning and Weaponeering Module				
Systems Development: WASP v5.1 (F/A-18A/B/C/D/E/F, EA-18G):	1	2023	2	2024
Systems Development: WASP v5.2 (F/A-18A/B/C/D/E/F, EA-18G):	3	2023	4	2025
Systems Development: WASP Ongoing Database Updates:	1	2023	4	2029
Systems Development: WASP NGNMPS System Development:	1	2024	4	2029
Test & Evaluation Milestones: WASP v5.1 (F/A-18A/B/C/D/E/F, EA-18G):	1	2023	2	2024
Test & Evaluation Milestones: WASP NGNMPS Test & Evaluation	1	2024	4	2029
Production Milestones: Schedule Detail	3	2027	3	2027
Production Milestones: WASP v5.1 (F/A-18A/B/C/D/E/F, EA-18G) IOC::	3	2023	3	2023
Production Milestones: WASP v5.2 F/A-18A/B/C/D/E/F, EA-18G) IOC::	2	2024	2	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 0605215N / *Mission Planning*	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*	0.000	4.826	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4.826
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Next Generation Naval Mission Planning System (NGNMPS) Program will address critical capability gaps and deficiencies in the legacy JMPS that are required for modern 21st century integrated mission-centric and collaborative multi-domain mission planning, execution and analysis. The NGNMPS capability provides advanced multiple aircraft planning capabilities focused on emerging, high-threat mission areas. The emerging, near-peer threat environment demands a much more capable system that enables a team of aircraft to cooperate effectively across multiple mission area domains and security levels. One of these emerging high-threat mission areas demanding significantly improved mission planning capability is the area of Anti-Submarine Warfare (ASW). The increasing ASW threat requires additional mission planning / execution tools and techniques across airborne, shipboard, and undersurface platforms. Accomplishing and defeating the ASW threat will require significant improvements in workflow, usability, and cybersecurity, while also providing the decision aids needed to rapidly plan and effectively employ airborne, shipboard, and subsurface capabilities. These ASW mission planning, execution, and analysis functions comport with National Defense Strategy and Interim National Security Strategic Guidance key objectives. ASW mission planning, execution, and post-mission analysis will be conducted at all appropriate security classification levels.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024
Congressional Add: Multi domain anti-submarine solutions	4.826	0.000
FY 2023 Accomplishments: Initiate requirements analysis for multi-domain anti-submarine warfare (ASW). Identify necessary workflow, tools, and battle management aids. Identify integration points with the Next Generation Naval Mission Planning System as well as other PEO and Systems Command ASW planning and execution tools. Identify and allocate software, hardware, and interface requirements to airborne, surface, and subsurface ASW assets at all appropriate classification levels. Development of initial software capabilities inside the NGNMPS software factory. Support user evaluations. Prepare program documentation to transition ASW requirements into established programs of record. Establish design use cases for requirements definition. Allocate requirements to hardware and software. Establish design working groups, facilitate and conduct user assessments. Ensure delivered software meets NGNMPS business and technical rules.		
FY 2024 Plans: N/A		
Congressional Adds Subtotals	4.826	0.000

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 0605215N / *Mission Planning*	**Project (Number/Name)** 9999 / *Congressional Adds*

C. Other Program Funding Summary ($ in Millions)

Remarks

D. Acquisition Strategy

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 0605215N / *Mission Planning*	**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
ASW Requirements & SW Development	C/CPFF	Progeny Systems Corp : Manassas, VA	0.000	2.826	Feb 2024	0.000		0.000		-		0.000	0.000	2.826	-
		Subtotal	0.000	2.826		0.000		0.000		-		0.000	0.000	2.826	N/A

Remarks

Initiate requirements analysis for multi-domain anti-submarine warfare (ASW). Identify necessary workflow, tools, and battle management aids. Identify integration points with the Next Generation Naval Mission Planning System program as well as other PEO and Systems Command ASW planning and execution tools. Identify and allocate software, hardware, and interface requirements to airborne, surface, and subsurface ASW assets at all appropriate classification levels. Development of initial software capabilities inside the NGNMPS software factory. Support user evaluations. Prepare program documentation to transition ASW requirements into established programs of record.

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
ASW Systems Engineering	WR	NAWCAD : Patuxent River, MD	0.000	0.750	Feb 2024	0.000		0.000		-		0.000	0.000	0.750	-
ASW Systems Engineering	WR	NAWCWD : Point Mugu, CA	0.000	1.000	Feb 2024	0.000		0.000		-		0.000	0.000	1.000	-
		Subtotal	0.000	1.750		0.000		0.000		-		0.000	0.000	1.750	N/A

Remarks

Establish design use cases for requirements definition. Allocate requirements to hardware and software. Establish design working groups, facilitate and conduct user assessments. Ensure delivered software meets NGNMPS business and technical rules.

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
ASW Program Management Support	C/CPFF	Precise : Lexington Park, MD	0.000	0.250	Feb 2024	0.000		0.000		-		0.000	0.000	0.250	-
		Subtotal	0.000	0.250		0.000		0.000		-		0.000	0.000	0.250	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 0605215N / *Mission Planning*	Project (Number/Name) 9999 / *Congressional Adds*	

	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	4.826		0.000		0.000		-		0.000	0.000	4.826	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 0605215N / *Mission Planning*	**Project (Number/Name)** 9999 / *Congressional Adds*

	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Proj 9999																												
Anti-Submarine Warfare (ASW): ASW Requirements Analysis	[redacted]																											

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 0605215N / *Mission Planning*	**Project (Number/Name)** 9999 / *Congressional Adds*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 9999				
Anti-Submarine Warfare (ASW): ASW Requirements Analysis	2	2023	1	2024