Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Navy	Date: March 2023
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0305421N *I RQ-4 Modernization*

COST ($ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	1,061.593	134.323	150.093	300.378	-	300.378	431.346	363.789	152.967	122.562	0.000	2,717.051
2939: *RQ-4 Modernization*	1,061.593	134.323	150.093	300.378	-	300.378	431.346	363.789	152.967	122.562	0.000	2,717.051

Program MDAP/MAIS Code:
Project MDAP/MAIS Code(s): 373

Note

MQ-4C Triton RDT&E efforts segregated into two distinct Program Elements. PE 0305220N, PU 4020 Baseline, supported developmental efforts from the inception of the program and continues to fund fatigue testing, and other assessments that may initiate performance improvement efforts for other aircraft components associated. PE 0305421N, PU 2939 Modernization, supports the development of advanced radar modes inclusive of Ground Moving Target Indicator (GMTI), Enhanced Electro-Optic/Infrared (EO/IR) detection in support of GEOINT for increased maritime domain awareness, Integration of High Gain Aperture (HGA) for improved SIGINT, communications and networks resiliency in denied environments, implementation of multi-UA Command and Control (C2), and implementation of Sense and Avoid (SAA) traffic and weather capability for increased mission availability and airspace integration.

A. Mission Description and Budget Item Justification

MISSION:
The MQ-4C Triton MQ-4C Triton Unmanned Air System (UAS) is a high altitude-long endurance UAS designed to provide Fleet and combatant commanders with persistent maritime Intelligence, Surveillance and Reconnaissance (ISR) of nearly all the world's high-density sea-lanes, littorals, and areas of national interest. The MQ-4C air vehicle, mission control system, specialized sensors, and communications suite play a significant role in achieving the Navy's strategic vision for the 21st century. The Triton system provides persistent ISR and unparalleled situational awareness of the maritime battle space to the supported combatant commander and fleet commander. The system also serves as a Fleet response plan enabler with a persistent, global force offering to provide critical trip wire information for intelligence preparation of the environment. Triton provides the Warfighter with unprecedented levels of battlespace awareness to synchronize actions necessary to maintain maritime Full Spectrum Superiority. Teamed with its manned-capability counterpart, the P-8A Poseidon, Triton is a key component of the Navy's maritime domain awareness family of systems. MQ-4C Triton leverages Maritime Patrol and Reconnaissance Force manpower, training and maintenance efficiencies.

Triton Early Operational Capability (EOC) was successfully deployed in 2020. Following EOC, the MQ-4C Triton UAS continues to develop incremental capabilities within the ongoing acquisition program to meet program requirements in support of the 2011 National Defense Authorization Act (NDAA) enabling EP-3 Aries sundown and the Maritime Intelligence, Surveillance, Reconnaissance and Targeting (MISR-T) transition plan.

Increment 1 upgrades to the EOC system support program Initial Operational Capability (IOC) meeting NDAA 2011 requirements enabling MISR-T transition and EP-3 sundown. Increment 1 provides Multi-Intelligence capabilities, Counter Electronic Attack upgrades, and data dissemination across multiple classification domains and successfully completes in FY 2023.

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Navy	Date: March 2023
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0305421N *I RQ-4 Modernization*

Increment 2 initiated during FY 2023, will develop advanced radar modes inclusive of Ground Moving Target Indicator (GMTI), Enhanced Electro-Optic/Infrared (EO/IR) detection in support of Geographic Intelligence (GEOINT) for increased maritime domain awareness, Integration of High Gain Aperture (HGA) for improved Signal Intelligence (SIGINT), communications and networks resiliency in denied environments, implementation of multi-UA Command and Control (C2), and implementation of Sense and Avoid (SAA) traffic and weather capability for increased mission availability and airspace integration, as well as addressing required Diminishing Manufacturing Source (DMS) and cyber security updates.

The full MQ-4C Triton sensor suite provides near worldwide coverage through a network of orbits inside and outside continental United States, with sufficient air vehicles to remain airborne for 24 hours a day, 7 days a week, out to ranges of 2,000 nautical miles. Onboard sensors provide detection, classification, tracking and identification of maritime targets and include maritime radar, electro-optical/infra-red and SIGINT/ systems. Additionally, the MQ-4C communications relay capability links dispersed forces in the theater of operations and allows Triton to serve as a node in the Navy's networked strategy. Tactical-level data analysis occurs in real-time at shore-based mission control sites connected to the air vehicle via satellite communications. Further intelligence exploitation can be conducted at Fleet shore-based sites or aboard aircraft carriers and other ships.

JUSTIFICATION FOR BUDGET ACTIVITY: The FY 2024 funding is provided for the incorporation of incremental capability upgrades improving mission effectiveness, execution, and survivability through incorporation of Multi-UA command and control, weather avoidance overlays, expanded flight envelope through icing conditions, Sense and Avoid (SAA), M-Code integration, J11 message set for weapons targeting, Multi-Function Active Sensor (MFAS) Radar upgrades, Joint Signal Processor (JSP), High Gain Aperture (HGA), and Alternative Networks. Additional supportability improvements will address required Diminishing Manufacturing Source (DMS) and cyber security updates.

This program is funded under OPERATIONAL SYSTEMS DEVELOPMENT because it includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate funding in the current or subsequent fiscal year.

B. Program Change Summary ($ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	134.323	163.277	259.254	-	259.254
Current President's Budget	134.323	150.093	300.378	-	300.378
Total Adjustments	0.000	-13.184	41.124	-	41.124
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-13.184			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	40.526	-	40.526
• Rate/Misc Adjustments	0.000	0.000	0.598	-	0.598

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Navy	Date: March 2023
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0305421N *I RQ-4 Modernization*

Change Summary Explanation

CHANGES:

Funding: FY 2024 was increased by $0.598M for various miscellaneous economic adjustments. Additionally, the program received an increase of $40.526M to support development of advanced radar modes, Enhanced Electro-Optic/Infrared (EO/IR) detection for increased maritime domain awareness, as well as integration improved Signal Intelligence, communications and networks resiliency in denied environments to support increased mission availability.

Technical: N/A.

Schedule: Phased Capability Upgrades - Increment 2 Development Start 3QFY2023;

- Continuation of Radar Signal Processor (RSP) re-design enhancement efforts, High Gain Aperture for improved SIGINT development, and multi-UA Command and Control.
- 4.2 Identification Friend or Foe (IFF)/ Traffic Alert and Collision Avoidance System (TCAS) certification required by 2Q FY24
- Sense and Avoid (SAA) PDR 2QFY24, CDR 4QFY24

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy											Date: March 2023	
Appropriation/Budget Activity 1319 / 7					R-1 Program Element (Number/Name) PE 0305421N / *RQ-4 Modernization*				Project (Number/Name) 2939 / *RQ-4 Modernization*			
COST ($ in Millions)	**Prior Years**	**FY 2022**	**FY 2023**	**FY 2024 Base**	**FY 2024 OCO**	**FY 2024 Total**	**FY 2025**	**FY 2026**	**FY 2027**	**FY 2028**	**Cost To Complete**	**Total Cost**
2939: *RQ-4 Modernization*	1,061.593	134.323	150.093	300.378	-	300.378	431.346	363.789	152.967	122.562	0.000	2,717.051
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: 373

A. Mission Description and Budget Item Justification

The MQ-4C Triton MQ-4C Triton Unmanned Air System (UAS) is a high altitude-long endurance UAS designed to provide Fleet and combatant commanders with persistent maritime Intelligence, Surveillance and Reconnaissance (ISR) of nearly all the world's high-density sea-lanes, littorals, and areas of national interest. The MQ-4C air vehicle, mission control system, specialized sensors, and communications suite play a significant role in achieving the Navy's strategic vision for the 21st century. The Triton system provides persistent ISR and unparalleled situational awareness of the maritime battle space to the supported combatant commander and fleet commander. The system also serves as a Fleet response plan enabler with a persistent, global force offering to provide critical trip wire information for intelligence preparation of the environment. Triton provides the Warfighter with unprecedented levels of battlespace awareness to synchronize actions necessary to maintain maritime Full Spectrum Superiority. Teamed with its manned-capability counterpart, the P-8A Poseidon, Triton is a key component of the Navy's maritime domain awareness family of systems. MQ-4C Triton leverages Maritime Patrol and Reconnaissance Force manpower, training and maintenance efficiencies.

Triton Early Operational Capability (EOC) was successfully deployed in 2020. Following EOC, the MQ-4C Triton UAS continues to develop incremental capabilities within the ongoing acquisition program to meet program requirements in support of the 2011 National Defense Authorization Act (NDAA) enabling EP-3 Aries sundown and the Maritime Intelligence, Surveillance, Reconnaissance and Targeting (MISR-T) transition plan.

Increment 1 upgrades to the EOC system support program Initial Operational Capability (IOC) meeting NDAA 2011 requirements enabling MISR-T transition and EP-3 sundown. Increment 1 provides Multi-Intelligence capabilities, Counter Electronic Attack upgrades, and data dissemination across multiple classification domains and successfully completes in FY 2023.

Increment 2 initiated during FY 2023, will develop advanced radar modes inclusive of Ground Moving Target Indicator (GMTI), Enhanced Electro-Optic/Infrared (EO/IR) detection in support of Geographic Intelligence (GEOINT) for increased maritime domain awareness, Integration of High Gain Aperture (HGA) for improved Signal Intelligence (SIGINT), communications and networks resiliency in denied environments, implementation of multi-UA Command and Control (C2), and implementation of Sense and Avoid (SAA) traffic and weather capability for increased mission availability and airspace integration, as well as addressing required Diminishing Manufacturing Source (DMS) and cyber security updates.

The full MQ-4C Triton sensor suite provides near worldwide coverage through a network of orbits inside and outside continental United States, with sufficient air vehicles to remain airborne for 24 hours a day, 7 days a week, out to ranges of 2,000 nautical miles. Onboard sensors provide detection, classification, tracking and identification of maritime targets and include maritime radar, electro-optical/infra-red and SIGINT/ systems. Additionally, the MQ-4C communications relay capability links dispersed forces in the theater of operations and allows Triton to serve as a node in the Navy's networked strategy. Tactical-level data analysis occurs in real-time at shore-based

mission control sites connected to the air vehicle via satellite communications. Further intelligence exploitation can be conducted at Fleet shore-based sites or aboard aircraft carriers and other ships.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Product Development	97.224	111.920	267.875	0.000	267.875
Articles:	-	-	-	-	-
Description: MQ-4C Triton Unmanned Air System (UAS) modernization effort for incorporation of incremental capability upgrades. The prime contractor is responsible for integration of upgrades into the Triton UAS including associated management, engineering and logistics activities. Capability upgrades will also include development of system payloads directly with original equipment manufacturers. ***FY 2023 Plans:*** FY 2023 completes the testing, integration, and Correction of Deficiencies (COD) of Increment 1 capabilities and transition to Q4 FY 2023 IOC. Follow-on Increment 2 development efforts beginning in Q3 FY 2023 address Multi-UA command and control, weather avoidance overlays, expanded flight envelope through icing conditions, Sense and Avoid (SAA), J11 message set for weapons targeting, Multi-Function Active Sensor (MFAS) Radar upgrades, Joint Signal Processor (JSP), High Gain Aperture (HGA), and Alternative Networks, as well as addressing required Diminishing Manufacturing Source (DMS) and cyber security updates. ***FY 2024 Base Plans:*** FY 2024 continues Increment 2 development efforts to provide advanced radar modes inclusive of Ground Moving Target Indicator (GMTI), Enhanced Electro-Optic/Infrared (EO/IR) detection in support of GEOINT for increased maritime domain awareness, Integration of High Gain Aperture (HGA) for improved SIGINT, communications and networks resiliency in denied environments, implementation of multi-UA Command and Control (C2), and implementation of Sense and Avoid (SAA) traffic and weather capability for increased mission availability and airspace integration, as well as addressing required Diminishing Manufacturing Source (DMS) and cyber security updates. ***FY 2024 OCO Plans:*** N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:*** Increase from FY 2023 to FY 2024 aligns to required funding for hardware development, systems engineering, and correction of deficiencies resulting from the program's development efforts in support of Increment 2 capability.					
Title: ILS, Support, Studies & Analysis	3.006	3.067	4.040	0.000	4.040
Articles:	-	-	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305421N / *RQ-4 Modernization*	**Project (Number/Name)** 2939 / *RQ-4 Modernization*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Description: Integrated Logistics Support, Studies and Analysis. ***FY 2023 Plans:*** Funding continues in FY 2023 to support the development and integration of logistics and product support considerations for Triton's modernization upgrade. Efforts include integrated logistics support, technical engineering services, sensor reliability and maintainability risk reduction, logistics supportability analyses and environmental planning, modeling and simulation, development of manpower and basing assessments, and development of technical data to support fielding of the MQ-4C Triton UAS modernization capabilities. ***FY 2024 Base Plans:*** Funding continues in FY 2024 to support the development and integration of logistics and product support considerations for Triton's modernization upgrade. Efforts include integrated logistics support, technical engineering services, sensor reliability and maintainability risk reduction, logistics supportability analyses and environmental planning, modeling and simulation, development of manpower and basing assessments, and development of technical data to support fielding of the MQ-4C Triton UAS modernization capabilities. ***FY 2024 OCO Plans:*** N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:*** Increase from FY 2023 to FY 2024 reflects ILS support associated with Increment 2 capability.					
Title: Test & Evaluation (T&E)	32.182	33.138	25.938	0.000	25.938
Articles:	-	-	-	-	-
Description: T&E efforts. ***FY 2023 Plans:*** Funding continues in FY 2023 to support OT activities, including integrated test team labor to reduce risk in design and development, perform subsystem level ground and acceptance testing, obtain the necessary satellite communications required for testing and execute OT support to allow test and fielding of the MQ-4C Triton UAS increment 1 capability in accordance with the program schedule. To support Increment 1 IOC, the program continues System Level II and III testing, Post-QC2 flight test, validates EMI corrective actions and Corrections of Deficiencies (CODs). ***FY 2024 Base Plans:***					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305421N / *RQ-4 Modernization*	**Project (Number/Name)** 2939 / *RQ-4 Modernization*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Funding continues in FY 2024 to support integrated test team labor to reduce risk in design and development, perform subsystem level ground and acceptance testing, obtain the necessary satellite communications required for testing and execute OT support to allow test and fielding of the MQ-4C Triton UAS increment 2 capability in accordance with the program schedule. To support Increment 2, the program continues System Level II and III testing, Software Build flight test, and Corrections of Deficiencies (CODs). ***FY 2024 OCO Plans:*** N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:*** Decrease from FY 2023 to FY 2024 reflects completion of Increment 1 capability development.					
Title: Program Management (PM) ***Articles:*** ***Description:*** PM support and travel. ***FY 2023 Plans:*** Continue the following: PM support and travel, development of milestone and acquisition-related documentation, capability refinement and open systems architecture development, resource justification, affordability assessments and cost analyses, risk reduction and risk management, system integration and interoperability planning, technology maturity reviews, program protection planning, corrosion prevention planning, and joint and international cooperation efforts. Planning, coordination, and award of initial contract for Increment 2. ***FY 2024 Base Plans:*** Continue the following: PM support and travel, development of milestone and acquisition-related documentation, capability refinement and open systems architecture development, resource justification, affordability assessments and cost analyses, risk reduction and risk management, system integration and interoperability planning, technology maturity reviews, program protection planning, corrosion prevention planning, and joint and international cooperation efforts. ***FY 2024 OCO Plans:*** N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:*** Increase from FY 2023 to FY 2024 provides for post award contract initiation and management activities for Increment 2.	1.911 -	1.968 -	2.525 -	0.000 -	2.525 -
Accomplishments/Planned Programs Subtotals	134.323	150.093	300.378	0.000	300.378

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305421N / *RQ-4 Modernization*	**Project (Number/Name)** 2939 / *RQ-4 Modernization*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
• RDT&E/0305220N: *(U)MQ-4C Triton*	13.029	13.893	12.094	-	12.094	15.747	14.115	14.345	14.633	45.622	3,670.021
• APN/0442: *MQ-4 Triton*	483.151	584.192	486.345	-	486.345	187.035	150.170	131.884	136.268	51.700	5,141.738
• APN/0605/J0442: *Spares and Repair Parts*	26.387	6.406	10.974	-	10.974	0.000	0.000	0.000	0.000	0.000	538.440
• APN/0596: *MQ-4 Series*	7.046	91.977	93.951	-	93.951	122.518	150.230	149.947	162.758	245.194	1,121.738
• OMN/1D4D: *Weapons Maintenance*	42.061	118.549	129.148	-	129.148	138.698	165.728	182.145	185.794	Continuing	Continuing

Remarks

D. Acquisition Strategy

The MQ-4C Triton acquisition approach supports the Navy's Maritime Intelligence, Surveillance, Reconnaissance, and Targeting (MISR-T) Transition Plan by providing a stable and effective baseline Early Operational Capability (EOC) in 2020 to facilitate Fleet introduction and learning while continuing development engineering and integrated test on Signals Intelligence (SIGINT), and other upgrades to deliver an Increment 1 configuration at Initial Operational Capability (IOC). Following the completion of Increment 1 development in FY2023, Increment 2 capability development initiated without a gap in development. Increment 2 capability will directly support full MQ-4C Triton requirements and address correction of deficiencies, cyber security updates, and obsolescence issues to ensure the Navy maintains persistent Intelligence, Surveillance and Reconnaissance dominance through the system's lifecycle.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305421N / *RQ-4 Modernization*	**Project (Number/Name)** 2939 / *RQ-4 Modernization*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Prime Hardware Development - Increment 1 NGCAS	C/CPFF	Various : Various	716.757	76.200	Nov 2021	74.584	Nov 2022	0.000		-		0.000	0.000	867.541	867.541
Primary Hardware Development - Increment 1	WR	NSWC-Crane : Crane, Indiana	35.630	0.050	Nov 2021	0.050	Nov 2022	0.000		-		0.000	0.000	35.730	-
Multi-UA, Sense and Avoid Hardware Development & Aircraft System Integration - Increment 2	C/CPFF	Northrop Grumman : Rancho Bernardo, CA	0.000	0.000		5.408	Jul 2023	89.023	Oct 2023	-		89.023	360.624	455.055	455.055
Sub-Tier ARC-210 Radio System Integration - Increment 2	C/CPFF	Northrop Grumman : Kerny Mesa, CA	0.000	0.000		0.276	Mar 2023	6.141	Nov 2023	-		6.141	21.646	28.063	28.063
Sub-Tier Electro-Optic/Infrared System Development - Increment 2	C/CPFF	Raytheon : McKinney, TX	0.000	0.000		1.987	Mar 2023	44.219	Nov 2023	-		44.219	155.848	202.054	202.054
Sub-Tier High Gain Aperature System Development - Increment 2	C/CPFF	L3 Harris : Salt Lake City, UT	0.000	0.000		0.386	Mar 2023	8.598	Nov 2023	-		8.598	30.304	39.288	-
Sub-Tier Alternative Networks System Development - Increment 2	C/CPFF	L3 Harris : Salt Lake City, UT	0.000	0.000		2.097	Mar 2023	46.675	Nov 2023	-		46.675	164.507	213.279	-
Sub-Tier M-Code System Development - Increment 2	C/CPFF	Northrop Grumman : Woodland Hills, CA	0.000	0.000		0.883	Mar 2023	19.653	Oct 2023	-		19.653	69.266	89.802	-
Radar Signal Processor Hardware Development - Increment 2	C/CPFF	Northrop Grumman : Baltimore, MD	0.000	0.000		8.000	Jul 2023	16.000	Oct 2023	-		16.000	0.000	24.000	-
Mission Management Software Development - Increment 2	C/CPFF	JHU/APL : Laurel, MD	0.000	0.000		0.000		5.871	Nov 2023	-		5.871	23.484	29.355	29.355
High Band SIGINT Software Development - Increment 2	C/CPFF	Sierra Nevada Corporation : Beaver Creek, OH	0.000	0.000		0.000		0.904	Nov 2023	-		0.904	3.617	4.521	4.522
Cybersecurity & Classified Networks Software Development - Increment 2	C/CPFF	Ticom Geomatics : Austin, TX	0.000	0.000		0.000		7.210	Nov 2023	-		7.210	31.069	38.279	38.279

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305421N / *RQ-4 Modernization*	**Project (Number/Name)** 2939 / *RQ-4 Modernization*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Low Band SIGINT Software Development - Increment 2	C/CPFF	Boeing Argon ST : Fairfax, VA	0.000	0.000		0.000		1.365	Nov 2023	-		1.365	5.459	6.824	6.824
Systems Engineering - Increment 1	Various	Various : Various	58.995	2.000	Nov 2021	1.501	Nov 2022	0.000		-		0.000	0.000	62.496	62.496
Systems Engineering - Increment 1	WR	NAWC-AD : Patuxent River, MD	114.797	18.974	Nov 2021	15.937	Nov 2022	0.000		-		0.000	0.000	149.708	-
Systems Engineering - Increment 2	C/CPFF	Various : Various	0.000	0.000		0.499	Nov 2022	2.318	Nov 2023	-		2.318	8.671	11.488	20.159
Systems Engineering - Increment 2	WR	NAWC-AD : Patuxent River, MD	0.000	0.000		5.312	Nov 2022	19.896	Nov 2023	-		19.896	85.735	110.943	196.677
Prior Year Prod Dev no longer in the FYDP	Various	Various : Various	45.107	0.000		0.000		0.000		-		0.000	0.000	45.107	-
		Subtotal	971.286	97.224		116.920		267.873		-		267.873	960.230	2,413.533	N/A

Remarks

FY2024 increase above FY2023 levels supports Increment 2 Product Development requirements. As the airframe prime contractor and systems integrator, Northrop Grumman is tasked with supporting integration and design efforts associated with various capabilities to enable the MQ-4C Triton to provide detection, classification, tracking and identification of maritime targets. The capabilities associated with maritime radar, electro-optical/infra-red and SIGINT radar, communications relays and nodes supporting the Navy?s networked strategy is half of a critical partnership with the P-8A Poseidon program for the collection and dissemination of critical intelligence.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Support - Increment 1	Various	Various : Various	3.434	0.255	Nov 2021	0.195	Nov 2022	0.000		-		0.000	0.000	3.884	-
Integrated Logistics Support - Increment 1	Various	Various : Various	4.490	0.613	Nov 2021	0.470	Nov 2022	0.000		-		0.000	0.000	5.573	-
Integrated Logistics Support - Increment 1	WR	NAWC-AD : Patuxent River, MD	8.623	2.138	Nov 2021	1.636	Nov 2022	0.000		-		0.000	0.000	12.397	-
Development Support - Increment 2	Various	Various : Various	0.000	0.000		0.065	Nov 2022	1.265	Nov 2023	-		1.265	5.451	6.781	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305421N / *RQ-4 Modernization*	Project (Number/Name) 2939 / *RQ-4 Modernization*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Integrated Logistics Support - Increment 2	Various	Various : Various	0.000	0.000		0.156	Nov 2022	1.550	Nov 2023	-		1.550	1.400	3.106	-
Integrated Logistics Support - Increment 2	WR	NAWC-AD : Patuxent River, MD	0.000	0.000		0.545	Nov 2022	1.225	Nov 2023	-		1.225	3.569	5.339	-
		Subtotal	16.547	3.006		3.067		4.040		-		4.040	10.420	37.080	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	Various	Various : Various	7.730	1.751	Nov 2021	1.793	Nov 2022	2.501	Nov 2023	-		2.501	2.573	16.348	-
Developmental Test & Evaluation (DT&E)	WR	NAWC-AD : Patuxent River, MD	50.236	21.919	Nov 2021	22.578	Nov 2022	21.927	Nov 2023	-		21.927	74.899	191.559	-
Operational Test & Evaluation (OT&E)	Various	Various : Various	2.980	8.512	Nov 2021	3.767	Nov 2022	1.510	Nov 2023	-		1.510	14.176	30.945	-
		Subtotal	60.946	32.182		28.138		25.938		-		25.938	91.648	238.852	N/A

Remarks

FY 2024 Test & Evaluation funding provides for Increment 2 Software Build flight test events to verify the system meets Capability Development Document (CDD) requirements in support of Increment 2 program schedule.

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management - Increment 1	Various	Various : Various	1.199	0.188	Nov 2021	0.145	Nov 2022	0.000		-		0.000	0.000	1.532	-
Travel - Increment 1	Allot	Various : Various	0.244	0.037	Nov 2021	0.029	Nov 2022	0.000		-		0.000	0.000	0.310	-
Program Management Support - Increment 1	C/CPFF	Ausley : Lexington Park, MD	11.371	1.686	Nov 2021	1.303	Nov 2022	0.000		-		0.000	0.000	14.360	14.360
Program Management - Increment 2	Various	Various : Various	0.000	0.000		0.048	May 2023	0.697	May 2024	-		0.697	0.540	1.285	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305421N / *RQ-4 Modernization*	Project (Number/Name) 2939 / *RQ-4 Modernization*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Travel - Increment 2	Allot	Various : Various	0.000	0.000		0.009	May 2023	0.043	May 2024	-		0.043	0.163	0.215	-
Program Management Support - Increment 2	C/CPFF	Precise : Lexington Park, MD	0.000	0.000		0.434	May 2023	1.787	May 2024	-		1.787	7.663	9.884	9.886
		Subtotal	12.814	1.911		1.968		2.527		-		2.527	8.366	27.586	N/A

	Prior Years	FY 2022 Cost	FY 2022 Award Date	FY 2023 Cost	FY 2023 Award Date	FY 2024 Base Cost	FY 2024 Base Award Date	FY 2024 OCO Cost	FY 2024 OCO Award Date	FY 2024 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	1,061.593	134.323		150.093		300.378		-		300.378	1,070.664	2,717.051	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305421N / *RQ-4 Modernization*	**Project (Number/Name)** 2939 / *RQ-4 Modernization*

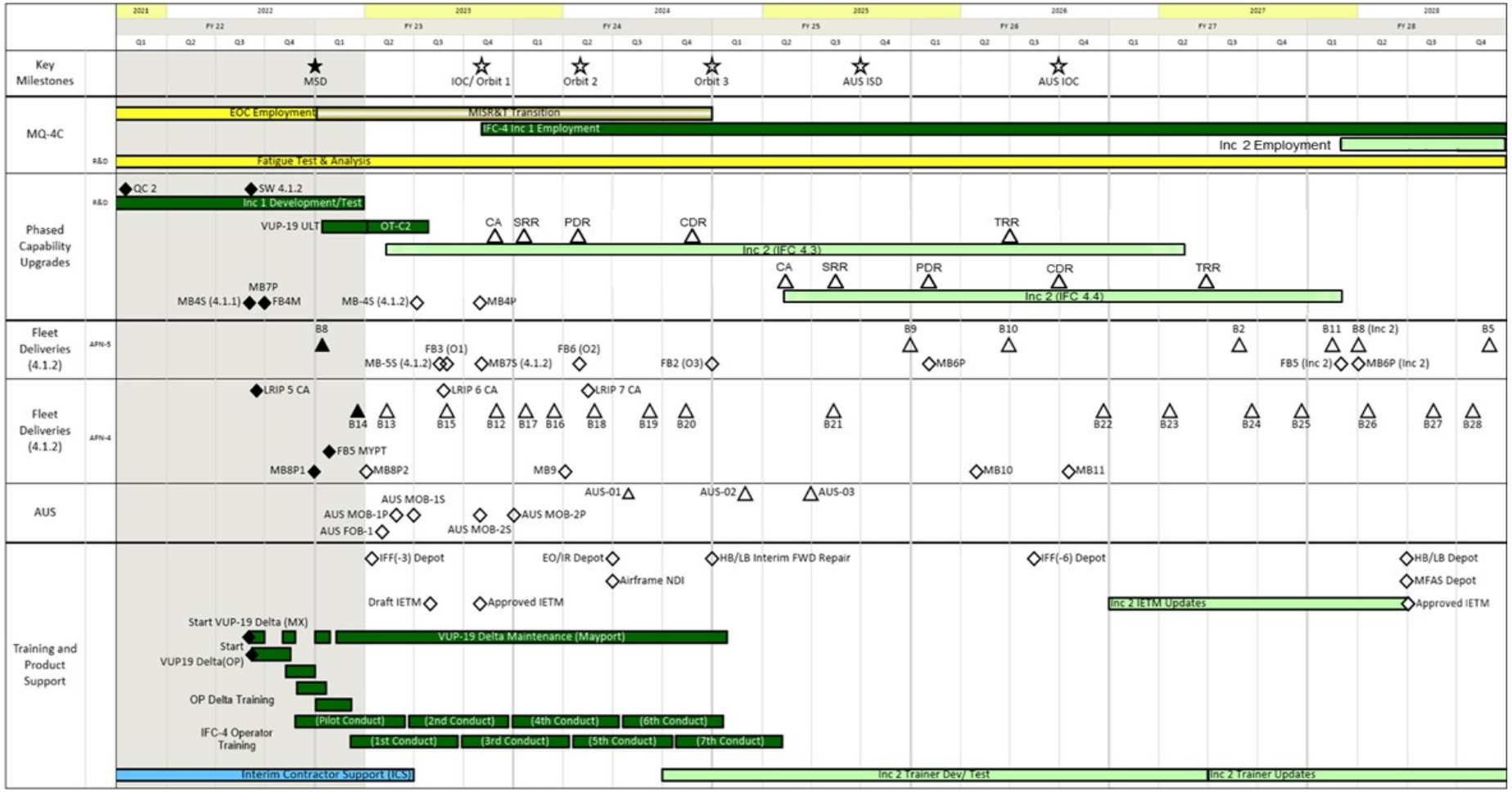

Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305421N / *RQ-4 Modernization*	**Project (Number/Name)** 2939 / *RQ-4 Modernization*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 2939				
Acquisition Milestones: Initial Operational Capability	4	2023	4	2023
System Development: Airframe Fatigue Testing and Analysis	1	2022	4	2028
System Development: Phased Capability Upgrades - Increment 1 Development / Test	1	2022	1	2023
System Development: Phased Capability Upgrades - Increment 2 Development / Test	3	2023	3	2027
Test & Evaluation Activities: Increment 1 Integrated Test (Combined/Developmental/ Operational)	1	2022	1	2023
Test & Evaluation Activities: Increment 1 Operational Test	1	2023	3	2023
Test & Evaluation Activities: Increment 2 Integrated Test (Combined/Developmental/ Operational)	3	2023	2	2028
Test & Evaluation Activities: Increment 2 Operational Test	3	2027	1	2028
Production Milestones: Contracts: Low Rate Initial Production Lot 5 Contract Award	3	2022	3	2022
Production Milestones: Contracts: Low Rate Initial Production Lot 6 Contract Award	3	2023	3	2023
Production Milestones: Contracts: Low Rate Initial Production Lot 7 Contract Award	2	2024	2	2024
Production Milestones: Deliveries: Low Rate Initial Production Lot 3 Delivery	2	2023	3	2023
Production Milestones: Deliveries: Low Rate Initial Production Lot 4 Delivery	1	2024	2	2024
Production Milestones: Deliveries: Low Rate Initial Production Lot 5 Delivery	3	2024	2	2027
Production Milestones: Deliveries: Low Rate Initial Production Lot 6 Delivery	3	2027	2	2028
Production Milestones: Deliveries: Low Rate Initial Production Lot 7 Delivery	3	2028	4	2028