

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy **Date:** March 2024

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0305421N / RQ-4 Modernization
---	--

COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	1,195.916	150.093	300.378	444.042	-	444.042	377.629	167.963	138.222	140.913	Continuing	Continuing
2939: <i>RQ-4 Modernization</i>	1,195.916	150.093	300.378	428.357	-	428.357	359.246	149.749	119.598	122.062	0.000	2,825.399
3329: <i>ISR&T Sensor Payloads</i>	0.000	0.000	0.000	15.685	-	15.685	18.383	18.214	18.624	18.851	Continuing	Continuing

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

Note

MQ-4C Triton RDT&E efforts are segregated into two distinct Program Elements. PE 0305220N, PU 4020 Baseline, supported developmental efforts from the inception of the program and continues to fund air vehicle Full Scale Fatigue Testing (FSFT), and other efforts that improve the air vehicle reliability, availability, maintainability, and performance. PE 0305421N, PU 2939 Modernization, supported developmental efforts to incorporate Multi-INT capabilities into MQ-4C and continues to support incremental development of Multi-INT enhancements associated with sensor, network, communications, command and control, airspace integration, and cybersecurity upgrades.

A. Mission Description and Budget Item Justification

MISSION:

Project Unit 2939: The 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 & Targeting (ISR&T) of nearly all the world's high-density sea-lanes, littorals, and areas of national interest. The Triton 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. Triton provides persistent ISR&T and unparalleled situational awareness of the maritime battle space to the supported combatant commander and fleet commander. 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 deployed in 2020 to provide early fleet integration risk reduction. It successfully prepared the fleet for fielding Initial Operational Capability (IOC) and concluded in 2022. In July 2023, Triton fielded the Increment 1 Multi-Intelligence (Multi-INT) IOC on schedule, successfully meeting the 2011 National Defense Authorization Act (NDAA) requirements. This enabled the Navy's Maritime Intelligence, Surveillance, Reconnaissance and Targeting (MISR-T) transition plan and initiated EP-3 Aries sundown. The Increment 1 Multi-INT capability provides Signals Intelligence (SIGINT), Counter Electronic Attack (CEA) upgrades, and data dissemination across multiple classification domains.

Triton initiated Increment 2 development in FY 2023. Increment 2 will provide 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, High Gain Aperture (HGA) for improved SIGINT, communications, navigation, and networks resiliency in denied environments, Multi-UA Command and Control (C2) for increase on station time, and

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy	Date: March 2024
---	-------------------------

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0305421N / <i>RQ-4 Modernization</i>
---	---

Sense and Avoid (SAA) traffic and weather capability for increased mission availability and airspace integration. Increment 2 development is also addressing required Diminishing Manufacturing Source (DMS) and cyber security updates.

Triton continues to provide near worldwide coverage through a network of orbits across the globe, 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 Triton 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 2025 funding is provided for the incorporation of incremental capability upgrades improving mission effectiveness, execution, and survivability through incorporation of 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, High Gain Aperture (HGA) for improved SIGINT, communications, navigation, and networks resiliency in denied environments, Multi-UA Command and Control (C2) for increase on station time, and Sense and Avoid (SAA) traffic and weather capability for increased mission availability and airspace integration. The FY25 budget also addresses 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.

Project Unit 3329: The details of program element 0305421N Project 3329 are classified and are submitted to Congress in the classified budget justification books. Other Program Adjustment of \$15.823M is an administrative realignment of Classified PU 3329 funding to PE 0305421N and does not constitute a new start.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	150.093	300.378	431.346	-	431.346
Current President's Budget	150.093	300.378	444.042	-	444.042
Total Adjustments	0.000	0.000	12.696	-	12.696
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	15.823	-	15.823
• Rate/Misc Adjustments	0.000	0.000	-3.127	-	-3.127

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0305421N / <i>RQ-4 Modernization</i>	

Change Summary Explanation

CHANGES:

Funding: FY2025 increased by \$12.696M - Programmatic Adjustment of +\$15.823M due to an administrative realignment of Classified PU 3329 funding to PE 0305421N; -\$3.127M for rate/miscellaneous adjustments.

Technical: N/A

Schedule: Phased Capability Upgrades - Increment 2 Development initiated in FY 2023

- Full Increment 2 Capability will fleet release in FY2028.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy **Date:** March 2024

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 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
2939: RQ-4 Modernization	1,195.916	150.093	300.378	428.357	-	428.357	359.246	149.749	119.598	122.062	0.000	2,825.399
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: 373

A. Mission Description and Budget Item Justification

Project Unit 2939: The 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 & Targeting (ISR&T) of nearly all the world's high-density sea-lanes, littorals, and areas of national interest. The Triton 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. Triton provides persistent ISR&T and unparalleled situational awareness of the maritime battle space to the supported combatant commander and fleet commander. 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 deployed in 2020 to provide early fleet integration risk reduction. It successfully prepared the fleet for fielding Initial Operational Capability (IOC) and concluded in 2022. In July 2023, Triton fielded the Increment 1 Multi-Intelligence (Multi-INT) IOC on schedule, successfully meeting the 2011 National Defense Authorization Act (NDAA) requirements. This enabled the Navy's Maritime Intelligence, Surveillance, Reconnaissance and Targeting (MISR-T) transition plan and initiated EP-3 Aries sundown. The Increment 1 Multi-INT capability provides Signals Intelligence (SIGINT), Counter Electronic Attack (CEA) upgrades, and data dissemination across multiple classification domains.

Triton initiated Increment 2 development in FY 2023. Increment 2 will provide 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, High Gain Aperture (HGA) for improved SIGINT, communications, navigation, and networks resiliency in denied environments, Multi-UA Command and Control (C2) for increase on station time, and Sense and Avoid (SAA) traffic and weather capability for increased mission availability and airspace integration. Increment 2 development is also addressing required Diminishing Manufacturing Source (DMS) and cyber security updates.

Triton continues to provide near worldwide coverage through a network of orbits across the globe, 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 Triton 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.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
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 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
<p>Title: Product Development</p> <p align="right">Articles:</p> <p>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.</p> <p>FY 2024 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.</p> <p>FY 2025 Base Plans: FY25 continues to develop Increment 2 to incrementally incorporate software and hardware capability improvements, building on the Increment 1 baseline to ensure ongoing relevance of the MQ-4C capability. Increment 2 development includes efforts to provide advanced radar modes inclusive of GMTI, EO/IR detection in support of GEOINT for increased maritime domain awareness, Integration of HGA for improved SIGINT, communications and networks resiliency in denied environments, implementation of multi-UA C2, and implementation of SAA traffic and weather capability for increased mission availability and airspace integration, as well as addressing required DMS and cyber security updates.</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase from FY 2024 to FY 2025 is funding attributable to fully ramped up Increment 2 subsystem development and system integration. In FY 2025 this includes engineering required to perform the system detailed design, develop and produce Systems Integration Labs, upgrade developmental ground stations and aircraft, and support ground and flight tests to successfully achieve program milestones.</p>	111.920	267.875	398.780	0.000	398.780
Articles:	-	-	-	-	-
<p>Title: ILS, Support, Studies & Analysis</p> <p align="right">Articles:</p>	3.067	4.040	4.122	0.000	4.122
Articles:	-	-	-	-	-

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy	Date: March 2024
--	-------------------------

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 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
---	---------	---------	--------------	-------------	---------------

Description: Integrated Logistics Support, Studies and Analysis.

FY 2024 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 2025 Base Plans:

Funding continues in FY2025 to support development and integration of product support considerations for Triton's Increment 2 development. FY25 activities will include implementation of requirements for 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 Increment 2 capabilities.

FY 2025 OCO Plans:

N/A

FY 2024 to FY 2025 Increase/Decrease Statement:

Increase from FY2024 to FY2025 reflects ILS support associated with Increment 2 capability.

Title: Test & Evaluation (T&E)	33.138	25.938	23.371	0.000	23.371
Articles:	-	-	-	-	-

Description: T&E efforts.

FY 2024 Plans:

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 2025 Base Plans:

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy	Date: March 2024
--	-------------------------

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 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
<p>Funding continues in FY 2025 to support integrated test team labor to reduce risk in design and development, perform subsystem level ground and acceptance testing, and obtain the necessary satellite communications required for system level test. To support the Increment 2 program schedule, the program continues System Level II and III testing, Software Build flight test, and Corrections of Deficiencies (CODs).</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease from FY2024 to FY2025 reflects reduced test support associated with Increment 2 necessary to successfully achieve program milestones.</p>					
<p>Title: Program Management (PM)</p> <p align="right">Articles:</p> <p>Description: PM support and travel.</p> <p>FY 2024 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.</p> <p>FY 2025 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.</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease from FY2024 to FY 2025 reflects reduced support requirements associated with the transition to baselined contractor earned value management system and standardized program management reporting.</p>	1.968	2.525	2.084	0.000	2.084
	-	-	-	-	-
Accomplishments/Planned Programs Subtotals	150.093	300.378	428.357	0.000	428.357

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
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)

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>			<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u>	
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	<u>Total Cost</u>
• RDT&E/0305220N: <i>(U)MQ-4C Triton</i>	13.893	12.094	14.402	-	14.402	14.672	14.624	14.382	14.677	30.682	3,668.998
• APN/0442: MQ-4 Triton	584.192	476.345	159.226	-	159.226	175.717	131.016	135.402	138.272	37.437	5,251.751
• APN/0605/J0442: <i>Spares and Repair Parts</i>	6.406	10.974	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	538.440
• APN/0596: MQ-4 Series	91.930	93.951	122.044	-	122.044	149.692	149.415	156.471	159.651	928.448	1,956.765
• OMN/1D4D: <i>Weapons Maintenance</i>	118.549	129.148	138.698	-	138.698	165.728	182.145	185.794	0.000	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. It provided 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 delivered in Increment 1 at IOC. Following the completion of Increment 1 development in FY2023 and achievement of IOC, Increment 2 capability development initiated without a gap in development. Increment 2 capability will directly support full MQ-4C Triton requirements and key capability enhancement in support of fleet operational needs, and address correction of deficiencies, cyber security updates, and obsolescence issues to ensure the Navy maintains persistent ISR&T dominance through the system's lifecycle.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy **Date:** March 2024

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)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Prime Hardware Development - Increment 1 NGCAS	C/CPFF	Various : Various	792.957	74.584	Nov 2022	0.000		0.000		-		0.000	0.000	867.541	867.541
Primary Hardware Development - Increment 1	WR	NSWC-Crane : Crane, Indiana	35.680	0.050	Nov 2022	0.000		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	5.408	Jul 2023	89.023	Oct 2023	92.246	Oct 2024	-		92.246	155.591	342.268	342.268
Aircraft Upgrade-Increment 2	C/CPFF	Northrop Grumman : Rancho Bernardo, CA	0.000	0.000		0.000		54.053	Oct 2024	-		54.053	23.555	77.608	77.608
Ground Station Upgrade-Increment 2	C/CPFF	Northrop Grumman : Rancho Bernardo, CA	0.000	0.000		0.000		13.643	Oct 2024	-		13.643	14.155	27.798	27.798
Sub-Tier ARC-210 Radio System Integration - Increment 2	C/CPFF	Northrop Grumman : Kerny Mesa, CA	0.000	0.276	Mar 2023	6.141	Nov 2023	9.434	Oct 2024	-		9.434	13.355	29.206	29.206
Sub-Tier Electro-Optic/Infrared System Development - Increment 2	C/CPFF	Raytheon : McKinney, TX	0.000	1.987	Mar 2023	44.219	Nov 2023	67.927	Oct 2024	-		67.927	96.162	210.295	210.295
Sub-Tier High Gain Aperature System Development - Increment 2	C/CPFF	L3 Harris : Salt Lake City, UT	0.000	0.386	Mar 2023	8.598	Nov 2023	13.208	Oct 2024	-		13.208	18.699	40.891	40.891
Sub-Tier Alternative Networks System Development - Increment 2	C/CPFF	L3 Harris : Salt Lake City, UT	0.000	2.097	Mar 2023	46.675	Nov 2023	71.701	Oct 2024	-		71.701	101.505	221.978	221.978
Sub-Tier M-Code System Development - Increment 2	C/CPFF	Northrop Grumman : Woodland Hills, CA	0.000	0.883	Mar 2023	19.653	Oct 2023	30.190	Oct 2024	-		30.190	42.737	93.463	93.463
Radar Signal Processor Hardware Development - Increment 2	C/CPFF	Northrop Grumman : Baltimore, MD	0.000	8.000	Jul 2023	16.000	Oct 2023	0.000		-		0.000	0.000	24.000	24.000
Radar Signal Processor Hardware Development	C/CPFF	Northrop Grumman : Rancho Bernardo, CA	0.000	0.000		0.000		9.494	Nov 2024	-		9.494	36.928	46.422	46.422

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy **Date:** March 2024

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)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Mission Management Software Development - Increment 2	C/CPFF	JHU/APL : Laurel, MD	0.000	0.000		5.871	Nov 2023	5.871	Nov 2024	-		5.871	23.484	35.226	35.226
High Band SIGINT Software Development - Increment 2	C/CPFF	Sierra Nevada Corporation : Beaver Creek, OH	0.000	0.000		0.904	Nov 2023	0.904	Nov 2024	-		0.904	3.616	5.424	5.424
Cybersecurity & Classified Networks Software Development - Increment 2	C/CPFF	Ticom Geomatics : Austin, TX	0.000	0.000		7.210	Nov 2023	7.426	Nov 2024	-		7.426	32.001	46.637	46.637
Low Band SIGINT Software Development - Increment 2	C/CPFF	Boeing Argon ST : Fairfax, VA	0.000	0.000		1.365	Nov 2023	1.406	Nov 2024	-		1.406	4.474	7.245	7.245
Systems Engineering - Increment 1	Various	Various : Various	60.995	1.501	Nov 2022	0.000		0.000		-		0.000	0.000	62.496	62.496
Systems Engineering - Increment 1	WR	NAWC-AD : Patuxent River, MD	133.771	15.937	Nov 2022	0.000		0.000		-		0.000	0.000	149.708	-
Systems Engineering - Increment 2	C/CPFF	Various : Various	0.000	0.499	Nov 2022	2.318	Nov 2023	2.264	Nov 2024	-		2.264	7.381	12.462	12.462
Systems Engineering - Increment 2	WR	NAWC-AD : Patuxent River, MD	0.000	5.312	Nov 2022	19.896	Nov 2023	19.013	Nov 2024	-		19.013	81.982	126.203	-
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			1,068.510	116.920		267.873		398.780		-		398.780	655.625	2,507.708	N/A

Remarks
 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. New contract for Radar Signal Processor Hardware starts FY2025. Aircraft and ground station upgrades FY2025 supports the upgrade and integration of test assets to support Increment 2 capability development and testing requirements.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy **Date:** March 2024

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)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Development Support - Increment 1	Various	Various : Various	3.689	0.195	Nov 2022	0.000		0.000		-		0.000	0.000	3.884	-
Integrated Logistics Support - Increment 1	Various	Various : Various	5.103	0.470	Nov 2022	0.000		0.000		-		0.000	0.000	5.573	-
Integrated Logistics Support - Increment 1	WR	NAWC-AD : Patuxent River, MD	10.761	1.636	Nov 2022	0.000		0.000		-		0.000	0.000	12.397	-
Development Support - Increment 2	Various	Various : Various	0.000	0.065	Nov 2022	1.265	Nov 2023	1.303	Nov 2024	-		1.303	5.614	8.247	-
Integrated Logistics Support - Increment 2	Various	Various : Various	0.000	0.156	Nov 2022	1.550	Nov 2023	0.550	Nov 2024	-		0.550	1.000	3.256	-
Integrated Logistics Support - Increment 2	WR	NAWC-AD : Patuxent River, MD	0.000	0.545	Nov 2022	1.225	Nov 2023	2.269	Nov 2024	-		2.269	1.700	5.739	-
Subtotal			19.553	3.067		4.040		4.122		-		4.122	8.314	39.096	N/A

Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental Test & Evaluation (DT&E)	Various	Various : Various	9.481	1.793	Nov 2022	2.501	Nov 2023	0.723	Nov 2024	-		0.723	4.100	18.598	-
Developmental Test & Evaluation (DT&E)	WR	NAWC-AD : Patuxent River, MD	72.155	22.578	Nov 2022	21.927	Nov 2023	21.193	Nov 2024	-		21.193	60.276	198.129	-
Operational Test & Evaluation (OT&E)	Various	Various : Various	11.492	3.767	Nov 2022	1.510	Nov 2023	1.455	Nov 2024	-		1.455	13.915	32.139	-
Subtotal			93.128	28.138		25.938		23.371		-		23.371	78.291	248.866	N/A

Remarks
 FY2025 funding provides test support and infrastructure associated with upgraded Increment 2 ground and flight test articles, and conducts ground and flight tests to successfully achieve program milestones.

UNCLASSIFIED

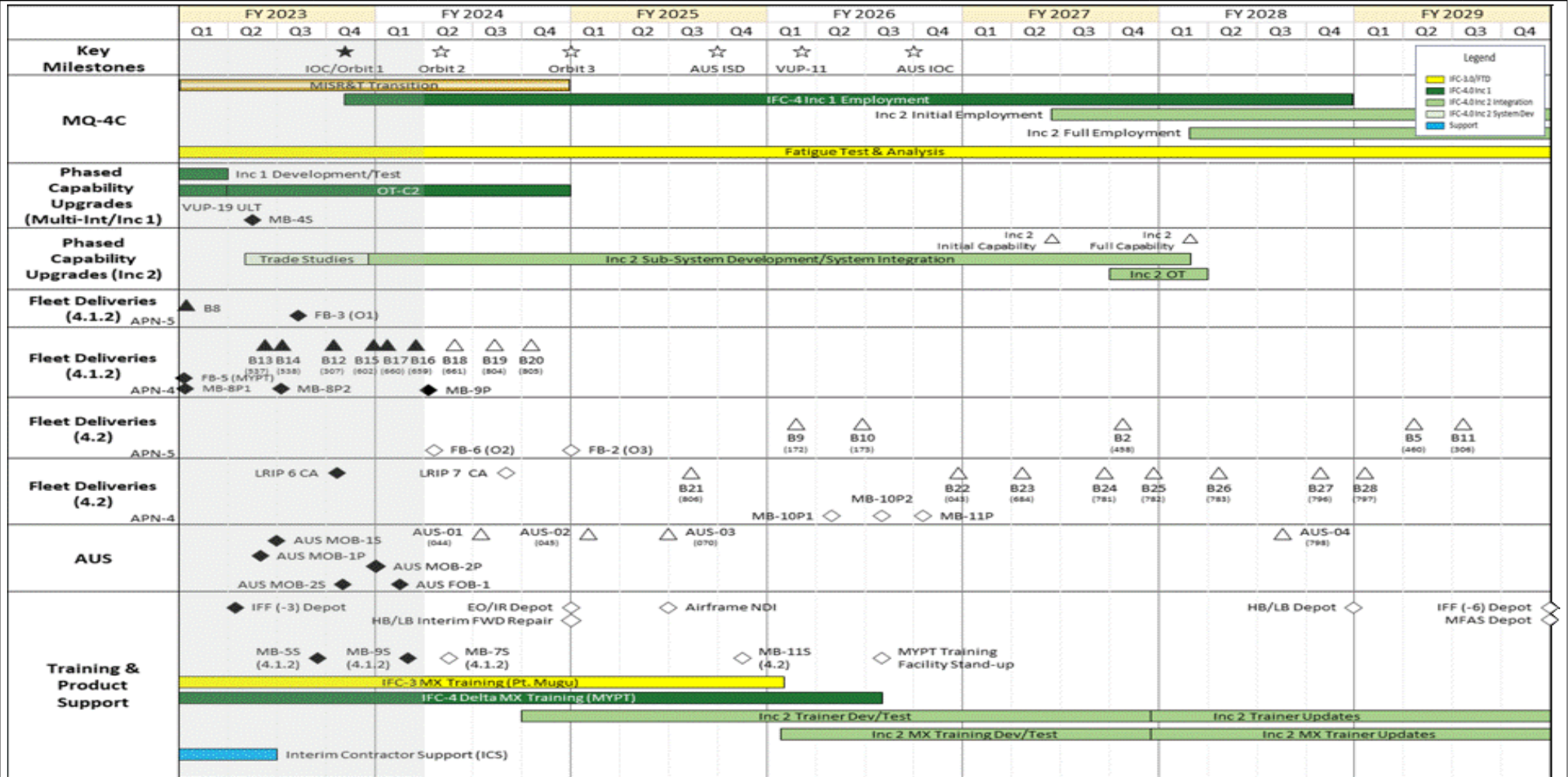
Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy

Date: March 2024

Appropriation/Budget Activity
1319 / 7

R-1 Program Element (Number/Name)
PE 0305421N / RQ-4 Modernization

Project (Number/Name)
2939 / RQ-4 Modernization



UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy **Date:** March 2024

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

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2939				
Acquisition Milestones: Initial Operational Capability	4	2023	4	2023
System Development: Airframe Fatigue Testing and Analysis	1	2023	4	2029
System Development: Phased Capability Upgrades - Increment 2 Development / Test	2	2023	1	2028
Test & Evaluation Activities: Increment 1 Integrated Test (Combined/Developmental/Operational)	1	2023	1	2023
Test & Evaluation Activities: Increment 1 Operational Test	1	2023	4	2024
Test & Evaluation Activities: Increment 2 Integrated Test (Combined/Developmental/Operational)	2	2023	1	2028
Test & Evaluation Activities: Increment 2 Operational Test	3	2027	1	2028
Production Milestones: Contracts: Low Rate Initial Production Lot 6 Contract Award	4	2023	4	2023
Production Milestones: Contracts: Low Rate Initial Production Lot 7 Contract Award	3	2024	3	2024
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	4	2028	1	2029

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy										Date: March 2024		
Appropriation/Budget Activity 1319 / 7					R-1 Program Element (Number/Name) PE 0305421N / RQ-4 Modernization				Project (Number/Name) 3329 / ISR&T Sensor Payloads			
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
3329: <i>ISR&T Sensor Payloads</i>	0.000	0.000	0.000	15.685	-	15.685	18.383	18.214	18.624	18.851	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The details of program element 0305421N Project 3329 are classified and are submitted to Congress in the classified budget justification books.

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: ISR&T Sensor Payloads	0.000	0.000	15.185	0.000	15.185
Articles:	-	-	-	-	-
FY 2024 Plans: N/A					
FY 2025 Base Plans: The details of program element 0305421N Project 3329 are classified and are submitted to Congress in the classified budget justification books.					
FY 2025 OCO Plans: N/A					
FY 2024 to FY 2025 Increase/Decrease Statement: The details of program element 0305421N Project 3329 are classified and are submitted to Congress in the classified budget justification books.					
Title: ISR&T Support	0.000	0.000	0.200	0.000	0.200
Articles:	-	-	-	-	-
FY 2024 Plans: N/A					
FY 2025 Base Plans: The details of program element 0305421N Project 3329 are classified and are submitted to Congress in the classified budget justification books.					
FY 2025 OCO Plans: N/A					
FY 2024 to FY 2025 Increase/Decrease Statement:					

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy				Date: March 2024		
Appropriation/Budget Activity 1319 / 7		R-1 Program Element (Number/Name) PE 0305421N / RQ-4 Modernization		Project (Number/Name) 3329 / ISR&T Sensor Payloads		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						
The details of program element 0305421N Project 3329 are classified and are submitted to Congress in the classified budget justification books.						
Title: ISR&T Test and Evaluation						
Articles:						
		0.000	0.000	0.100	0.000	0.100
		-	-	-	-	-
FY 2024 Plans: N/A						
FY 2025 Base Plans: The details of program element 0305421N Project 3329 are classified and are submitted to Congress in the classified budget justification books.						
FY 2025 OCO Plans: N/A						
FY 2024 to FY 2025 Increase/Decrease Statement: The details of program element 0305421N Project 3329 are classified and are submitted to Congress in the classified budget justification books.						
Title: ISR&T Program Management						
Articles:						
		0.000	0.000	0.200	0.000	0.200
		-	-	-	-	-
FY 2024 Plans: N/A						
FY 2025 Base Plans: The details of program element 0305421N Project 3329 are classified and are submitted to Congress in the classified budget justification books.						
FY 2025 OCO Plans: N/A						
FY 2024 to FY 2025 Increase/Decrease Statement: The details of program element 0305421N Project 3329 are classified and are submitted to Congress in the classified budget justification books.						
Accomplishments/Planned Programs Subtotals		0.000	0.000	15.685	0.000	15.685

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy **Date:** March 2024

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305421N / <i>RQ-4 Modernization</i>	Project (Number/Name) 3329 / <i>ISR&T Sensor Payloads</i>
--	---	---

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

The details of program element 0305421N Project 3329 are classified and are submitted to Congress in the classified budget justification books.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy **Date:** March 2024

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305421N / RQ-4 Modernization	Project (Number/Name) 3329 / ISR&T Sensor Payloads
--	--	--

Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Classified	Various	Not Specified : Not Specified	0.000	0.000		0.000		15.185	Nov 2024	-		15.185	Continuing	Continuing	Continuing
Subtotal			0.000	0.000		0.000		15.185		-		15.185	Continuing	Continuing	N/A

Remarks
The details of program element 0305421N Project 3329 are classified and are submitted to Congress in the classified budget justification books.

Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Classified	Various	Not Specified : Not Specified	0.000	0.000		0.000		0.200	Nov 2024	-		0.200	0.000	0.200	-
Subtotal			0.000	0.000		0.000		0.200		-		0.200	0.000	0.200	N/A

Remarks
The details of program element 0305421N Project 3329 are classified and are submitted to Congress in the classified budget justification books.

Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental Test & Evaluation (DT&E)	Various	Not Specified : Not Specified	0.000	0.000		0.000		0.100	Nov 2024	-		0.100	0.000	0.100	-
Subtotal			0.000	0.000		0.000		0.100		-		0.100	0.000	0.100	N/A

Remarks
The details of program element 0305421N Project 3329 are classified and are submitted to Congress in the classified budget justification books.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy **Date:** March 2024

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305421N / RQ-4 Modernization	Project (Number/Name) 3329 / ISR&T Sensor Payloads
--	--	--

Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Classified	Various	Not Specified : Not Specified	0.000	0.000		0.000		0.200	Nov 2024	-		0.200	0.000	0.200	-
Subtotal			0.000	0.000		0.000		0.200		-		0.200	0.000	0.200	N/A

Remarks
The details of program element 0305421N Project 3329 are classified and are submitted to Congress in the classified budget justification books.

	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	0.000	0.000	15.685	-	15.685	Continuing	Continuing	N/A

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy **Date:** March 2024

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305421N / RQ-4 Modernization	Project (Number/Name) 3329 / ISR&T Sensor Payloads
--	--	--

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 3329	
Classified	

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy **Date:** March 2024

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305421N / RQ-4 Modernization	Project (Number/Name) 3329 / ISR&T Sensor Payloads
--	--	--

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3329				
Classified	1	2025	4	2029