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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Navy **Date:** April 2022

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
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	932.429	129.164	134.323	163.277	-	163.277	259.254	337.368	276.581	98.787	0.000	2,331.183
2939: <i>RQ-4 Modernization</i>	932.429	129.164	134.323	163.277	-	163.277	259.254	337.368	276.581	98.787	0.000	2,331.183

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

Note

MQ-4C Triton RDT&E funding for modernization was segregated into a new program element (from PE 0305220N to PE 0305421N) for increased transparency.

A. Mission Description and Budget Item Justification

MQ-4C Triton Unmanned Air System (UAS). The popular name Triton was approved for the MQ-4C UAS in June 2012, designating the RQ-4 Broad Area Maritime Surveillance UAS as the MQ-4C Triton. Triton Early Operational Capability (EOC) was successfully deployed in 2020.

The MQ-4C Triton 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, 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.

Following successful EOC deployment, the MQ-4C Triton UAS will 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 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 I provides Multi-Intelligence capabilities, Counter Electronic Attack upgrades, and data dissemination across multiple classification domains. Increment 2 provides Multi-UA command and control, weather avoidance overlays, expanded flight envelope through icing conditions, Sense and Avoid (SAA), J11 message set for weapons targeting, and Multi-Function Active Sensor (MFAS) Radar upgrades as well as addressing required Diminishing Manufacturing Source (DMS) and cyber security updates.

The full MQ-4C Triton sensor suite will provide 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 will 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 will link dispersed forces in the theater of operations and allow Triton to serve as a node in the Navy's networked strategy. Tactical-level data analysis will occur in real-time

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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: 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	129.164	134.323	0.000	-	0.000
Current President's Budget	129.164	134.323	163.277	-	163.277
Total Adjustments	0.000	0.000	163.277	-	163.277
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	0.000	-	0.000
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000
• Adjustments to Budget Year	-	-	163.277	-	163.277

Change Summary Explanation

Technical: N/A.

Schedule:

- Added software build 4.1.2 related items
- MB5 delivery moved from 3QFY2022 to 2QFY2022
- MB7S delivery moved from 3QFY2022 to 3QFY2023
- MB7P delivery moved from 3QFY2021 to 4QFY2023
- MB4S (MST) delivery moved from 1QFY2022 to 1QFY2023
- Added LRIP 5 Contract Award in 3QFY2022
- FB5 MYPT delivery was added in 4QFY2022
- LRIP 3 deliveries start moved from 4QFY2022 to 2QFY2023

FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy **Date:** April 2022

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
2939: RQ-4 Modernization	932.429	129.164	134.323	163.277	-	163.277	259.254	337.368	276.581	98.787	0.000	2,331.183
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: 373

A. Mission Description and Budget Item Justification

MQ-4C Triton Unmanned Air System (UAS). The popular name Triton was approved for the MQ-4C UAS in June 2012, designating the RQ-4 Broad Area Maritime Surveillance UAS as the MQ-4C Triton. Triton Early Operational Capability (EOC) was successfully deployed in 2020.

The MQ-4C Triton 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, 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.

Following successful EOC deployment, the MQ-4C Triton UAS will 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 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 I provides Multi-Intelligence capabilities, Counter Electronic Attack upgrades, and data dissemination across multiple classification domains. Increment 2 provides Multi-UA command and control, weather avoidance overlays, expanded flight envelope through icing conditions, Sense and Avoid (SAA), J11 message set for weapons targeting, and Multi-Function Active Sensor (MFAS) Radar upgrades as well as addressing required Diminishing Manufacturing Source (DMS) and cyber security updates.

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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 2022 Plans: FY 2022 continues development of capability upgrades as the program continues software development, including Increment 1 capabilities in support of the Intelligence, Surveillance, Reconnaissance and Targeting transition plan. Efforts will also include Correction of Deficiencies (COD) identified in testing. Funding includes Electromagnetic Interference (EMI) and Co-site corrective actions, AMP development and integration of development assets for capability upgrades including electro-optical/infra-red, Multi-Function Active Sensor (MFAS) radar improvements, SIGINT High Band and SIGINT Low Band systems. Supports Increment 1 development emergent scope, preserves development schedule and employment for Q4 FY 2023 Increment 1 IOC, and maintains alignment with MISR&T plan.</p> <p>FY 2023 Base Plans: FY 2023 continues 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 DMS, cyber security updates, and include Multi-UA command and control, weather avoidance overlay, expanded flight envelope through icing conditions, Sense and Avoid (SAA), J11 message set for weapons targeting, and Multi-Function Active Sensor (MFAS) Radar upgrades.</p> <p>FY 2023 OCO Plans: N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Increase from FY 2022 to FY 2023 aligns to required funding for hardware development, systems engineering, and corrections of deficiencies resulting from the program's test efforts in support of Increment 1 IOC to complete in Q4 FY 2023 and for initial contract award for Increment 2 in Q3 FY 2023.</p>	106.253	97.224	125.104	0.000	125.104
	-	-	-	-	-
<p>Title: ILS, Support, Studies & Analysis</p> <p align="right">Articles:</p> <p>Description: Integrated Logistics Support, Studies and Analysis.</p>	2.950	3.006	3.067	0.000	3.067
	-	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<p>FY 2022 Plans: Funding continues in FY 2022 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.</p> <p>FY 2023 Base 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.</p> <p>FY 2023 OCO Plans: N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Increase from FY 2022 to FY 2023 reflects inflation.</p>					
<p>Title: Test & Evaluation (T&E)</p> <p align="right">Articles:</p> <p>Description: T&E efforts.</p> <p>FY 2022 Plans: Funding continues in FY 2022 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 continue OT support to allow test and fielding of the MQ-4C Triton UAS phased capability upgrades in accordance with the program schedule. To support Increment 1 IOC, the program initiates QC2 ground and flight test, validates EMI corrective actions and Corrections of Deficiencies (CODs).</p> <p>FY 2023 Base 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</p>	18.086	32.182	33.138	0.000	33.138
	-	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<p>continues System Level II and III testing, Post-QC2 flight test, validates EMI corrective actions and Corrections of Deficiencies (CODs).</p> <p>FY 2023 OCO Plans: N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Increase from FY 2022 to FY 2023 aligns with test events to verify the system meets Key Performance Parameters and Key System Attributes to support a FY 2023 Increment 1 IOC. Resources also support resolution of deficiencies identified during OT&E.</p>					
<p>Title: Program Management (PM)</p> <p align="right">Articles:</p> <p>Description: PM support and travel.</p> <p>FY 2022 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 2023 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. Planning, coordination, and award of initial contract for Increment 2.</p> <p>FY 2023 OCO Plans: N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Increase from FY 2022 to FY 2023 provides for continued program and analysis support toward attaining Increment 1 IOC in Q4 FY 2023 and for Increment 2 contract award in Q3 FY2023.</p>	1.875	1.911	1.968	0.000	1.968
	-	-	-	-	-
Accomplishments/Planned Programs Subtotals	129.164	134.323	163.277	0.000	163.277

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

Line Item	FY 2021	FY 2022	FY 2023	FY 2023	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Cost To	
			Base	OCO	Total					Complete	Total Cost
• RDT&E/0305220N: <i>(U)MQ-4C Triton</i>	11.120	13.029	13.893	-	13.893	13.876	13.930	14.098	14.328	14.238	3,623.935
• APN/0442: <i>MQ-4 Triton</i>	293.072	483.151	587.820	-	587.820	700.533	189.210	158.231	140.303	6,296.337	11,486.578
• APN/0605/J0442: <i>Spares and Repair Parts</i>	3.402	26.387	6.406	-	6.406	4.095	0.000	0.000	0.000	0.000	531.561
• APN/0596: <i>MQ-4 Series</i>	3.584	7.100	94.738	-	94.738	93.821	99.769	107.955	81.356	194.592	777.448
• OMN/1D4D: <i>Weapons Maintenance</i>	24.674	42.061	118.549	-	118.549	135.482	145.591	173.402	190.843	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, Increment 2 capability development will initiate. 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.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy **Date:** April 2022

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Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Primary Hardware Development - Increment 1	C/CPFF	Northrop Grumman : Rancho Bernardo, CA	602.686	83.863	Nov 2020	69.200	Nov 2021	70.584	Nov 2022	-		70.584	0.000	826.333	826.333
Primary Hardware Development - Increment 2	C/CPFF	Northrop Grumman : Rancho Bernardo, CA	0.000	0.000		0.000		24.221	Jul 2023	-		24.221	796.531	820.752	136.889
Primary Hardware Development - Increment 1	SS/FFP	Raytheon : McKinney, TX	6.979	0.000		0.000		0.000		-		0.000	0.000	6.979	6.979
Primary Hardware Development - Increment 1	C/CPFF	Sierra Nevada Corporation : Beaver Creek, OH	13.000	0.000		0.000		0.000		-		0.000	0.000	13.000	13.000
Primary Hardware Development - Increment 1	C/CPFF	Boeing Argon ST : Fairfax, VA	5.128	0.000		0.000		0.000		-		0.000	0.000	5.128	5.128
Primary Hardware Development - Increment 1	C/CPFF	Ticom Geomatics : Austin, TX	25.081	5.127	Jan 2021	7.000	Jan 2022	7.000	Jan 2023	-		7.000	0.000	44.208	44.208
Primary Hardware Development - Increment 1	WR	NSWC-Crane : Crane, Indiana	35.580	0.050	Nov 2020	0.050	Nov 2021	0.050	Nov 2022	-		0.050	0.000	35.730	-
Primary Hardware Development - Increment 1	C/CPFF	L-3 Communication Systems : Salt Lake City, UT	20.000	0.000		0.000		0.000		-		0.000	0.000	20.000	20.000
Systems Engineering - Increment 1	Various	Various : Various	40.729	0.250	Nov 2020	0.250	Nov 2021	0.188	Nov 2022	-		0.188	0.000	41.417	-
Systems Engineering - Increment 1	WR	NAWC-AD : Patuxent River, MD	99.584	15.213	Nov 2020	18.974	Nov 2021	15.937	Nov 2022	-		15.937	0.000	149.708	-
Systems Engineering - Increment 1	C/CPFF	Mitre : McLean, VA	8.050	1.000	Nov 2020	1.000	Nov 2021	0.750	Nov 2022	-		0.750	0.000	10.800	12.800
Systems Engineering - Increment 1	C/CPFF	MIT-Lincoln Labs : Lexington, MA	8.216	0.750	Nov 2020	0.750	Nov 2021	0.563	Nov 2022	-		0.563	0.000	10.279	11.966
Systems Engineering - Increment 2	C/CPFF	Various : Various	0.000	0.000		0.000		0.187	May 2023	-		0.187	1.000	1.187	-
Systems Engineering - Increment 2	Various	NAWC-AD : Patuxent River, MD	0.000	0.000		0.000		5.312	May 2023	-		5.312	66.423	71.735	-
Systems Engineering - Increment 2	C/CPFF	Mitre : McLean, VA	0.000	0.000		0.000		0.250	May 2023	-		0.250	3.750	4.000	2.000

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Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Systems Engineering - Increment 2	C/CPFF	MIT- Lincoln Labs : Lexington, MA	0.000	0.000		0.000		0.062	May 2023	-		0.062	2.500	2.562	1.000
Subtotal			865.033	106.253		97.224		125.104		-		125.104	870.204	2,063.818	N/A

Remarks
 The Increment 1 Product Development budget resources Northrop Grumman for integration design efforts, Raytheon for an Electro-Optical/Infrared (EO/IR) upgrade contract, Sierra Nevada Corporation for high band sensor kits, Boeing Argon for low band sensor kits, Ticom Geomatics for networking, L-3 Communication Systems for High Gain Common Data Link, NSWC-Crane for Airborne Mission Processor design and MITRE/MIT-LL for Airspace Integration efforts.

Support (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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	3.184	0.250	Nov 2020	0.255	Nov 2021	0.195	Nov 2022	-		0.195	0.000	3.884	-
Integrated Logistics Support - Increment 1	Various	Various : Various	3.888	0.602	Nov 2020	0.613	Nov 2021	0.470	Nov 2022	-		0.470	0.000	5.573	-
Integrated Logistics Support - Increment 1	WR	NAWC-AD : Patuxent River, MD	6.525	2.098	Nov 2020	2.138	Nov 2021	1.636	Nov 2022	-		1.636	0.000	12.397	-
Development Support - Increment 2	Various	Various : Various	0.000	0.000		0.000		0.065	May 2023	-		0.065	0.885	0.950	-
Integrated Logistics Support - Increment 2	Various	Various : Various	0.000	0.000		0.000		0.156	May 2023	-		0.156	1.800	1.956	-
Integrated Logistics Support - Increment 2	C/BA	NAWC-AD : Patuxent River, MD	0.000	0.000		0.000		0.545	May 2023	-		0.545	5.394	5.939	-
Subtotal			13.597	2.950		3.006		3.067		-		3.067	8.079	30.699	N/A

Test and Evaluation (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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 - Increment 1	Various	Various : Various	3.331	0.718	Nov 2020	0.732	Nov 2021	0.754	Nov 2022	-		0.754	0.000	5.535	-

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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 - Increment 1	WR	NAWC-AD : Patuxent River, MD	34.544	15.692	Nov 2020	21.919	Nov 2021	22.578	Nov 2022	-		22.578	0.000	94.733	-
Operational Test & Evaluation - Increment 1	Various	Various : Various	2.304	0.676	Nov 2020	8.512	Nov 2021	8.767	Nov 2022	-		8.767	0.000	20.259	-
Developmental Test & Evaluation (SATCOMM) - Increment 1	MIPR	DITCO : Various	2.681	1.000	Nov 2020	1.019	Nov 2021	1.039	Nov 2022	-		1.039	0.000	5.739	-
Developmental Test & Evaluation - Increment 2	Various	Various : Various	0.000	0.000		0.000		0.000		-		0.000	2.753	2.753	-
Developmental Test & Evaluation - Increment 2	WR	NAWC-AD : Patuxent River, MD	0.000	0.000		0.000		0.000		-		0.000	78.406	78.406	-
Operational Test & Evaluation - Increment 2	Various	Various : Various	0.000	0.000		0.000		0.000		-		0.000	2.750	2.750	-
Developmental Test & Evaluation (SATCOMM) - Increment 2	MIPR	DITCO : Various	0.000	0.000		0.000		0.000		-		0.000	3.191	3.191	-
Subtotal			42.860	18.086		32.182		33.138		-		33.138	87.100	213.366	N/A

Remarks
 FY 2023 Test & Evaluation funding provides for post-Qualification Certification 2 (QC2) flight test events to verify the system meets Key Performance Parameters and Key System Attributes to support a FY 2023 Increment 1 IOC. Resources also support correction of deficiencies identified during OT.

Management Services (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Program Management - Increment 1	Various	Various : Various	1.015	0.184	Nov 2020	0.188	Nov 2021	0.145	Nov 2022	-		0.145	0.000	1.532	-
Travel - Increment 1	Allot	Various : Various	0.208	0.036	Nov 2020	0.037	Nov 2021	0.029	Nov 2022	-		0.029	0.000	0.310	-
Program Management Support - Increment 1	C/CPFF	Ausley : Lexington Park, MD	9.716	1.655	Nov 2020	1.686	Nov 2021	1.303	Nov 2022	-		1.303	0.000	14.360	20.567
Program Management - Increment 2	Various	Various : Various	0.000	0.000		0.000		0.048	May 2023	-		0.048	0.672	0.720	-

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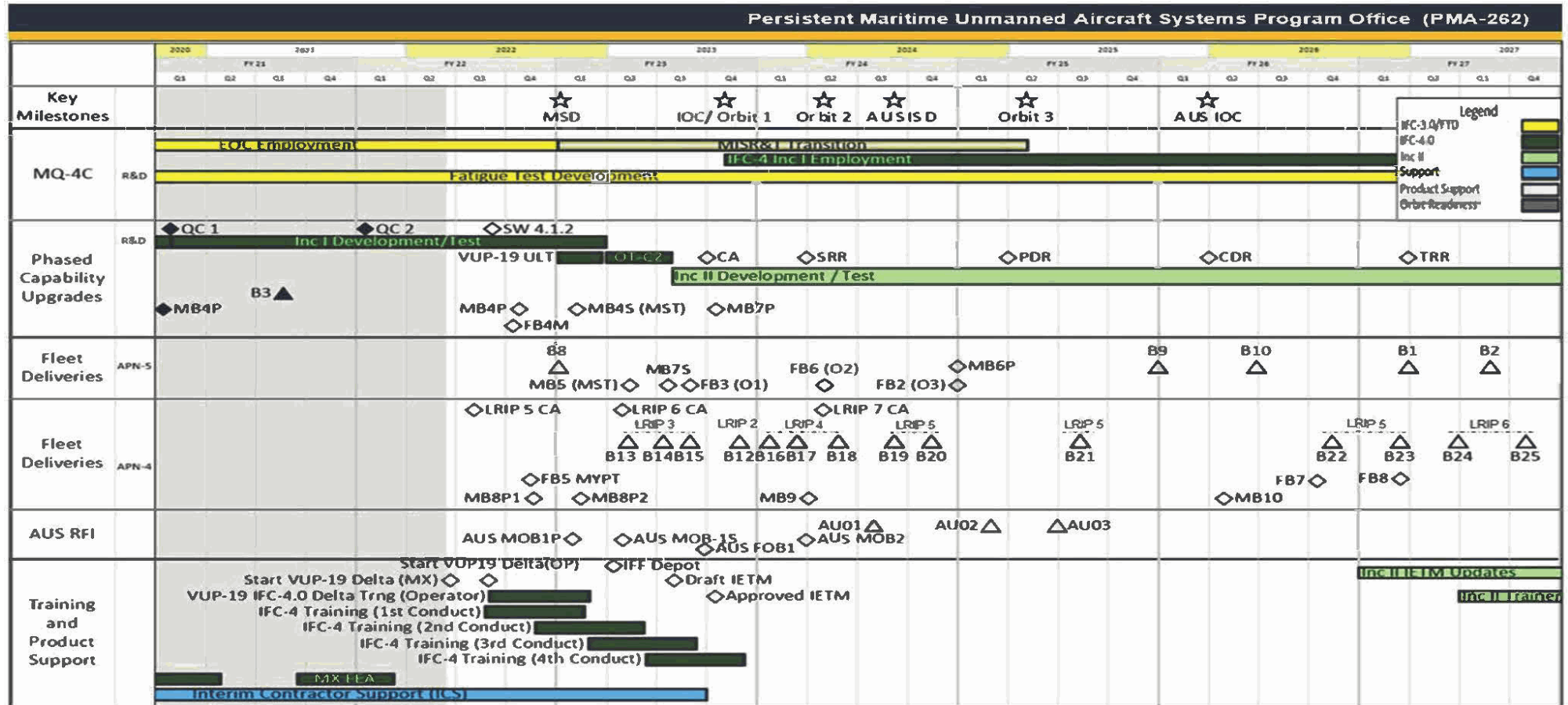
Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy

Date: April 2022

Appropriation/Budget Activity
1319 / 7

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

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



Schedule Based on Approved APB

Note: Low Rate Initial Production Lot 1 aircraft are conditionally accepted in IFC 3.0 configuration and retrofit to Increment 1 configuration. Low Rate Initial Production Lot 2 aircraft, excluding aircraft B12, are conditionally accepted in IFC 3.0 configuration and retrofit to Increment 1 configuration. R-4 schedule depicts Ready for Tasking aircraft delivered to the fleet vice initial government acceptance of the aircraft.

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Navy **Date:** April 2022

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305421N / RQ-4 Modernization	Project (Number/Name) 2939 / RQ-4 Modernization
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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	2021	4	2027
System Development: Phased Capability Upgrades - Increment 1 Development / Test	1	2021	2	2023
System Development: Phased Capability Upgrades - Increment 2 Development / Test	3	2023	4	2027
Test & Evaluation Activities: Increment 1 Integrated Test (Combined/Developmental/Operational)	1	2021	2	2023
Test & Evaluation Activities: Increment 1 Operational Test	2	2023	3	2023
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	2	2023	2	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	1	2027
Production Milestones: Deliveries: Low Rate Initial Production Lot 6 Delivery	2	2027	4	2027