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

<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0305220N / MQ-4C Triton
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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	3,515.423	11.120	13.029	13.893	-	13.893	13.876	13.930	14.098	14.328	14.238	3,623.935
4020: MQ-4C TRITON	3,515.423	11.120	13.029	13.893	-	13.893	13.876	13.930	14.098	14.328	14.238	3,623.935

**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) in order to satisfy Congressional direction 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

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<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0305220N / MQ-4C Triton
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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 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>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Previous President's Budget	11.120	13.029	0.000	-	0.000
Current President's Budget	11.120	13.029	13.893	-	13.893
Total Adjustments	0.000	0.000	13.893	-	13.893
• 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	-	-	13.893	-	13.893

**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 2QFY2022 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

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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

<b>Appropriation/Budget Activity</b> 1319 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0305220N / MQ-4C Triton				<b>Project (Number/Name)</b> 4020 / MQ-4C TRITON			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
4020: MQ-4C TRITON	3,515.423	11.120	13.029	13.893	-	13.893	13.876	13.930	14.098	14.328	14.238	3,623.935
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**Project MDAP/MAIS Code:** 373

**A. Mission Description and Budget Item Justification**

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Navy				<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 1319 / 7		<b>R-1 Program Element (Number/Name)</b> PE 0305220N / MQ-4C Triton		<b>Project (Number/Name)</b> 4020 / MQ-4C TRITON		
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>						
		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Title:</b> Product Development		10.773	12.682	13.546	0.000	13.546
<b>Articles:</b>		-	-	-	-	-
<b>Description:</b> Awarded contract in FY 2008 to initiate the MQ-4C Triton System Development and Demonstration (SDD) phase effort. The Prime Contractor is responsible for overall system development and performance, as well as associated management, engineering and logistics activities.						
<b>FY 2022 Plans:</b> Efforts within this PE continue on airframe fatigue testing and analysis.						
<b>FY 2023 Base Plans:</b> Efforts within this PE continue on airframe fatigue testing and analysis and initiates performance improvement efforts for other aircraft components including, but not limited to, the engine and avionics systems.						
<b>FY 2023 OCO Plans:</b> N/A						
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Increase of \$0.864M from FY 2022 to continue airframe fatigue testing and analysis as well as anti-ice and deice testing.						
<b>Title:</b> ILS, Support, Studies & Analysis		0.305	0.305	0.305	0.000	0.305
<b>Articles:</b>		-	-	-	-	-
<b>Description:</b> Integrated Logistics Support, Studies and Analysis.						
<b>FY 2022 Plans:</b> Continue integrated logistics support, logistics supportability analyses and environmental planning, and development of technical data to support fielding of the MQ-4C Triton UAS capabilities.						
<b>FY 2023 Base Plans:</b> Continue integrated logistics support, logistics supportability analyses and environmental planning, and development of technical data to support fielding of the MQ-4C Triton UAS capabilities.						
<b>FY 2023 OCO Plans:</b> N/A						
<b>Title:</b> Test & Evaluation (T&E)		0.024	0.024	0.024	0.000	0.024
<b>Articles:</b>		-	-	-	-	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Navy	<b>Date:</b> April 2022
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<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305220N / MQ-4C Triton	<b>Project (Number/Name)</b> 4020 / MQ-4C TRITON
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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
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<p><b>Description:</b> T&amp;E efforts.</p> <p><b>FY 2022 Plans:</b> Continue Developmental Test support of MQ-4C Triton fatigue testing.</p> <p><b>FY 2023 Base Plans:</b> Continue Developmental Test support of MQ-4C Triton fatigue testing.</p> <p><b>FY 2023 OCO Plans:</b> N/A</p>					
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<p><b>Title:</b> Program Management (PM)</p>	0.018	0.018	0.018	0.000	0.018
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<p><b>Description:</b> PM support and travel.</p> <p><b>FY 2022 Plans:</b> 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><b>FY 2023 Base Plans:</b> 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><b>FY 2023 OCO Plans:</b></p>	<p><b>Articles:</b></p> <p style="text-align: center;">-</p>	<p style="text-align: center;">-</p>	<p style="text-align: center;">-</p>	<p style="text-align: center;">-</p>	<p style="text-align: center;">-</p>
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**Exhibit R-2A, RDT&E Project Justification:** PB 2023 Navy **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305220N / MQ-4C Triton	<b>Project (Number/Name)</b> 4020 / MQ-4C TRITON
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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
N/A					
<b>Accomplishments/Planned Programs Subtotals</b>	11.120	13.029	13.893	0.000	13.893

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

<b>Line Item</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• RDTEN/0305421N: <i>RQ-4 Modernization</i>	129.164	134.323	163.277	-	163.277	259.254	337.368	276.581	98.787	0.000	2,331.183
• APN/0442: MQ-4 Triton	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>	3.227	28.387	6.406	-	6.406	4.095	0.000	0.000	0.000	0.000	594.265
• APN/0596: MQ-4 Series	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

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305220N / MQ-4C Triton	<b>Project (Number/Name)</b> 4020 / MQ-4C TRITON
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<b>Product Development (\$ in Millions)</b>				<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Primary Hardware Development	C/CPIF	Northrop Grumman : Rancho Bernardo, CA	2,862.629	10.473	Nov 2020	12.001	Nov 2021	12.851	Nov 2022	-		12.851	65.492	2,963.446	2,936.446
Systems Engineering	Various	Various : Various	20.641	0.000		0.000		0.000		-		0.000	0.000	20.641	-
Systems Engineering	WR	NAWC-AD : Patuxent River, MD	247.218	0.300	Nov 2020	0.681	Nov 2021	0.695	Nov 2022	-		0.695	3.530	252.424	-
Systems Engineering	WR	NAWC-WD : China Lake, CA	13.418	0.000		0.000		0.000		-		0.000	0.000	13.418	-
Contractor Engineering	C/CPFF	Mitre : Mclean, VA	4.044	0.000		0.000		0.000		-		0.000	0.000	4.044	4.044
Prior Year Prod Dev no longer in the FYDP	Various	Various : Various	24.553	0.000		0.000		0.000		-		0.000	0.000	24.553	-
<b>Subtotal</b>			3,172.503	10.773		12.682		13.546		-		13.546	69.022	3,278.526	N/A

**Remarks**  
 The Primary Hardware Development line resources Northrop Grumman for prime contractor activities, which include System Development and Demonstration (SDD) and System Demonstration Test Article (SDTA) vehicles and Fatigue Testing.

Increased funding from FY 2022 to FY 2023 reflects the resources required to continue airframe fatigue testing and analysis as well as to support efforts to transition into post-test teardown, inspections and reporting for portions of the full-scale test effort, namely the outboard ruddervator and nose landing gear. Additionally, the funding supports the execution of the Effects of Defects testing to retire limitations imposed by non-blueprint product.

<b>Support (\$ in Millions)</b>				<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Development Support	Various	Various : Various	21.552	0.000		0.000		0.000		-		0.000	0.000	21.552	-
Integrated Logistics Support	Various	Various : Various	21.335	0.025	Nov 2020	0.025	Nov 2021	0.025	Nov 2022	-		0.025	0.150	21.560	-
Integrated Logistics Support	WR	NAWC-AD : Patuxent River, MD	55.259	0.280	Nov 2020	0.280	Nov 2021	0.280	Nov 2022	-		0.280	1.080	57.179	-
Prior year cost no longer funded in the FYDP	Various	Various : Various	10.784	0.000		0.000		0.000		-		0.000	0.000	10.784	-
<b>Subtotal</b>			108.930	0.305		0.305		0.305		-		0.305	1.230	111.075	N/A

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

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305220N / MQ-4C Triton	<b>Project (Number/Name)</b> 4020 / MQ-4C TRITON
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<b>Test and Evaluation (\$ in Millions)</b>				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	Various	Various : Various	20.370	0.000		0.000		0.000		-		0.000	0.000	20.370	-
Developmental Test & Evaluation	WR	NAWC-AD : Patuxent River, MD	161.636	0.024	Nov 2020	0.024	Nov 2021	0.024	Nov 2022	-		0.024	0.150	161.858	-
Operational Test & Evaluation	Various	Various : Various	4.133	0.000		0.000		0.000		-		0.000	0.000	4.133	-
Developmental Test & Evaluation (SATCOMM)	MIPR	DITCO : Various	11.184	0.000		0.000		0.000		-		0.000	0.000	11.184	-
<b>Subtotal</b>			197.323	0.024		0.024		0.024		-		0.024	0.150	197.545	N/A

<b>Management Services (\$ in Millions)</b>				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	Various	Various : Various	3.507	0.000		0.000		0.000		-		0.000	0.000	3.507	-
Travel	Allot	Various : Various	1.828	0.018	Nov 2020	0.018	Nov 2021	0.018	Nov 2022	-		0.018	0.068	1.950	-
Program Management Support	C/CPFF	Ausley : Lexington Park, MD	26.324	0.000		0.000		0.000		-		0.000	0.000	26.324	26.324
Prior year cost no longer funded in the FYDP	Various	Various : Various	5.008	0.000		0.000		0.000		-		0.000	0.000	5.008	-
<b>Subtotal</b>			36.667	0.018		0.018		0.018		-		0.018	0.068	36.789	N/A

	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract	
<b>Project Cost Totals</b>		3,515.423	11.120	13.029	13.893	-	13.893	70.470	3,623.935	N/A

**Remarks**  
 Prior to FY 2010, MQ-4C Triton, formerly known as RQ-4 Broad Area Maritime Surveillance (BAMS), was budgeted for in PE 0305205N: Endurance Unmanned Aer Veh.

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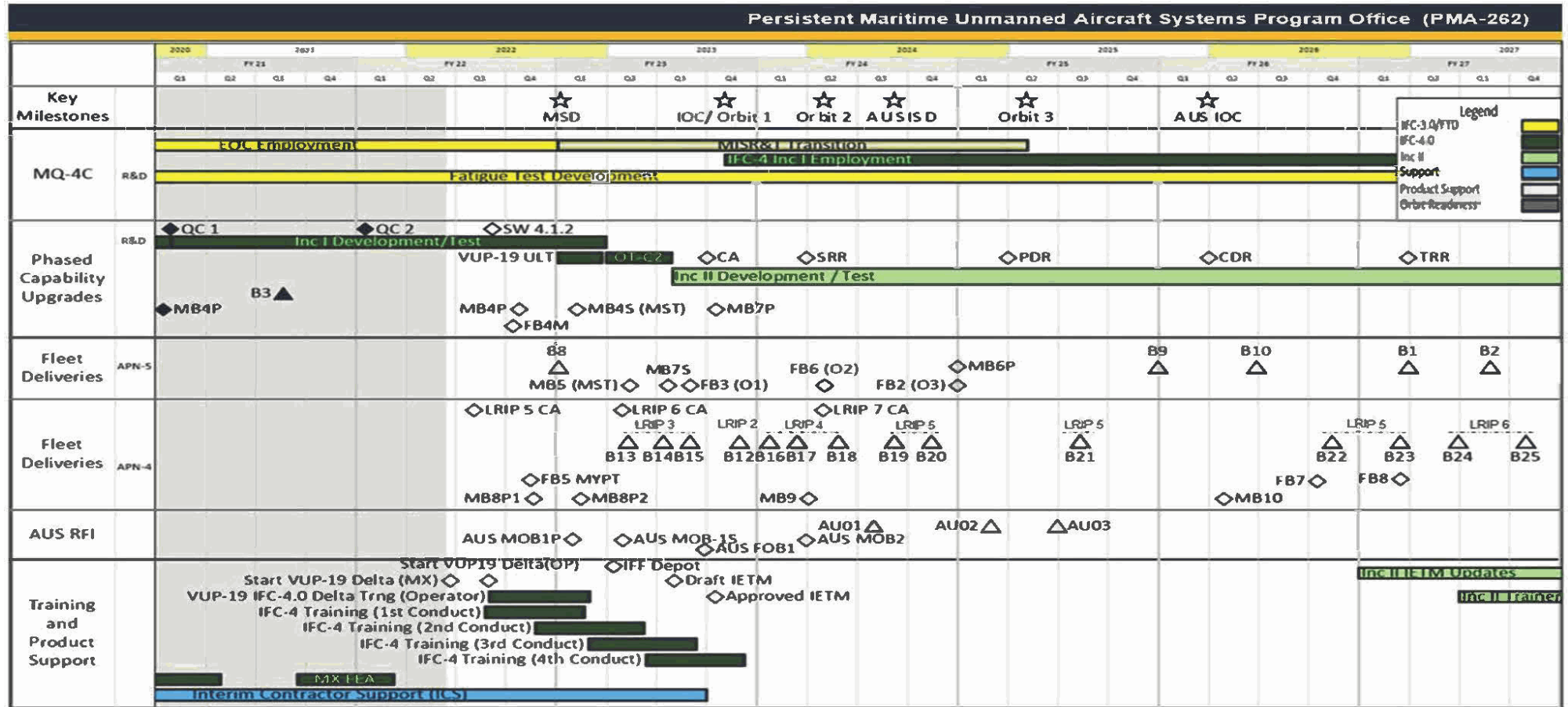
Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy

Date: April 2022

Appropriation/Budget Activity  
1319 / 7

R-1 Program Element (Number/Name)  
PE 0305220N / MQ-4C Triton

Project (Number/Name)  
4020 / MQ-4C TRITON



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

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305220N / MQ-4C Triton	<b>Project (Number/Name)</b> 4020 / MQ-4C TRITON
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 4020</b>				
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	4	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	1	2023
Test & Evaluation Activities: Increment 1 Operational Test	1	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