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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2021 Navy **Date:** February 2020

<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605504N / <i>Multi-Mission Maritime (MMA) Inc III</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	323.678	159.572	141.534	182.870	-	182.870	162.986	139.509	123.661	113.446	Continuing	Continuing
3218: <i>P-8A Spiral 2 Development</i>	323.678	154.745	133.534	182.870	-	182.870	162.986	139.509	123.661	113.446	Continuing	Continuing
9999: <i>Congressional Adds</i>	0.000	4.827	8.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	12.827

**Program MDAP/MAIS Code:**  
**Project MDAP/MAIS Code(s):** 334

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

The P-8A Increment 3 program consists of incremental enhancement Engineering Change Proposals (ECPs) to system capabilities that will retain cost-wise effectiveness for major combat operations. Increment 3 will incorporate improvements to aircraft systems including significant war-altering Anti-Submarine Warfare (ASW) capabilities of Enhanced Multi-Static Active Coherent (MAC) and ASW Signal Intelligence (SIGINT) which are enabled by the incorporation of Combat System hardware and architecture improvements, ASW and Anti-Surface Warfare (ASuW) sensor improvements, communication capability upgrades, ASuW Net Enabled Weapon (NEW), Higher-Than-Secret (HTS) security capability, and associated pre/post-flight ground system development to support Increment 3 aircraft and TacMobile Increment 3 Capability Development Document (CDD) requirements.

These capabilities will be developed as a series of ECPs for the P-8A and are as follows:

- ECP 5 - Net Enabled Weapon Data Link, High Frequency radio Internet Protocol (HF-IP), Integrated Broadcast Service (IBS) filtering, IBS receiver, and Harpoon II+. (Forward-fit Fielding FY20, Retrofit Fielding FY21)
- ECP 6 - ASW SIGINT, Anti-Submarine Warfare (ASW) capability, Wide Band SATCOM, Higher Than Secret (HTS) processing, Enhanced track management (Minotaur), Applications Based Architecture (ABA) and Combat System.
- ECP 7 - Enhanced Multi-Static Active Coherent (MAC).
- Pre/Post-Flight Ground System Development - System upgrades to the associated ground support system and Tactical Operations Center (TOC) systems.

To expedite fielding capability to the P-8A Fleet, ECPs 5 and 6 are executed concurrently as these capabilities are independent of one another. Enhanced MAC (ECP 7) software is also executed concurrently but is reliant on ECP 6's Combat System hardware and architecture to operate on the P-8A. Both ECP 6 and ECP 7 are integrated via the Platform Integration contract that awarded 2Q FY2019. ECP 6 integration activities began 1Q FY2019 with initiation of the Government Lead Capability Integrator (LCI) integration and award of the Platform Integration (PI) contract in 2Q FY2019. ECP 7 integration activities will begin 1Q FY2021. Enhanced MAC (ECP 7) is developed within Program Element (PE) 0604261N and integrated via the Platform Integration contract within this PE.

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

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Note: ECP 6 fielding in 3Q FY2024 includes 7 aircraft (1 squadron) modified, trained and ready to deploy to include pre/post-flight ground systems.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
Previous President's Budget	163.809	177.234	145.254	-	145.254
Current President's Budget	159.572	141.534	182.870	-	182.870
Total Adjustments	-4.237	-35.700	37.616	-	37.616
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-43.700			
• Congressional Rescissions	-	-			
• Congressional Adds	-	8.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-4.237	0.000			
• Program Adjustments	0.000	0.000	36.940	-	36.940
• Rate/Misc Adjustments	0.000	0.000	0.676	-	0.676

**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

**Project:** 9999: *Congressional Adds*

    Congressional Add: *New Design SSN SBIR (Cong)*

    Congressional Add: *SBIR Technology Insertion*

Congressional Add Subtotals for Project: 9999

Congressional Add Totals for all Projects

	<b>FY 2019</b>	<b>FY 2020</b>
	4.827	0.000
	0.000	8.000
	4.827	8.000
	4.827	8.000

**Change Summary Explanation**

Program schedule updated to provide more detailed schematic displays of major program milestones, to include: contracting activities, engineering milestones, acquisition approvals, test and evaluation events, and other applicable program milestones.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Navy										<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 1319 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0605504N / <i>Multi-Mission Maritime (MMA) Inc III</i>				<b>Project (Number/Name)</b> 3218 / <i>P-8A Spiral 2 Development</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
3218: <i>P-8A Spiral 2 Development</i>	323.678	154.745	133.534	182.870	-	182.870	162.986	139.509	123.661	113.446	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**Project MDAP/MAIS Code:** 334

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

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These capabilities will be developed as a series of ECPs for the P-8A and are as follows:

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- ECP 7 - Enhanced Multi-Static Active Coherent (MAC).
- Pre/Post-Flight Ground System Development - System upgrades to the associated ground support system and Tactical Operations Center (TOC) systems.

To expedite fielding capability to the P-8A Fleet, ECPs 5 and 6 are executed concurrently as these capabilities are independent of one another. Enhanced MAC (ECP 7) software is also executed concurrently but is reliant on ECP 6's Combat System hardware and architecture to operate on the P-8A. Both ECP 6 and ECP 7 are integrated via the Platform Integration contract that awarded 2Q FY2019. ECP 6 integration activities began 1Q FY2019 with initiation of the Government Lead Capability Integrator (LCI) integration and award of the Platform Integration (PI) contract in 2Q FY2019. ECP 7 integration activities will begin 1Q FY2021. Enhanced MAC (ECP 7) is developed within Program Element (PE) 0604261N and integrated via the Platform Integration contract within this PE.

Note: ECP 6 fielding in 3Q FY2024 includes 7 aircraft (1 squadron) modified, trained and ready to deploy to include pre/post-flight ground systems.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Navy		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605504N / <i>Multi-Mission Maritime (MMA) Inc III</i>	<b>Project (Number/Name)</b> 3218 / <i>P-8A Spiral 2 Development</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
<p><b>Title:</b> Product Development</p> <p align="right"><b>Articles:</b></p> <p><b>FY 2020 Plans:</b> Continue ECP 5 integration, test efforts and fielding. Continue ECP 6 integration on Platform Integration (PI) contract. Continue Government-led LCI efforts, associated ground support, Tactical Operations Center (TOC), and training system upgrades.</p> <p>OCO: Not applicable.</p> <p><b>FY 2021 Base Plans:</b> Complete ECP 5 integration, test efforts and fielding. Continue ECP 6 and initiate ECP 7 integration on the Platform Integration (PI) contract. Continue Government-led LCI efforts, associated ground support, test planning, TOC systems/AMG, and training systems upgrades.</p> <p><b>FY 2021 OCO Plans:</b> N/A</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Increase of \$23.474 million due to significant increased ECP 6 activities on the Boeing Platform Integration contract to develop more than 150K Equivalent Source Lines of Code (ESLOC), to complete subcontractor efforts to deliver all required hardware and initiate modification of the first test aircraft. Additional pre/post-flight ground support system requirements (including Higher Than Secret (HTS) capabilities) and Government Lead Capability Integrator (LCI) activities have also increased.</p>	147.785	125.226	148.700	0.000	148.700
	-	-	-	-	-
<p><b>Title:</b> Support/Test &amp; Evaluation/Management Services</p> <p align="right"><b>Articles:</b></p> <p><b>FY 2020 Plans:</b> Continue associated in-house government LCI/T&amp;E/management activities.</p> <p>OCO: Not applicable.</p> <p><b>FY 2021 Base Plans:</b></p>	6.960	8.308	34.170	0.000	34.170
	-	-	-	-	-

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
Continue associated in-house government Lead Capability Integrator (LCI)/T&E/management activities. <b>FY 2021 OCO Plans:</b> N/A <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Increase of \$25.862 million due to increased integration/testing of Government-led LCI/T&E activities and initiation/preparation required to initiate development and integration test activities at the end of FY2021					
<b>Accomplishments/Planned Programs Subtotals</b>	154.745	133.534	182.870	0.000	182.870

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

<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO</u>	<u>FY 2021 Total</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• APN/0586: <i>P-8 Series</i>	67.352	74.610	180.530	-	180.530	278.013	338.293	343.863	356.052	1,558.331	3,307.146

**Remarks**

**D. Acquisition Strategy**

The P-8A acquisition strategy is designed to deliver the required capabilities while introducing additional competition throughout the program. Government Lead Capability Integrator (LCI) control over the designs and information promote cost-effectiveness, rapid capability fielding, and reduced acquisition and life-cycle costs. Additionally, technologies for P-8 modernization improvements are compartmentalized and delivered independently of one another as a series of ECPs, without risk to the overall program schedule or procurement cost. This tailoring approach is effective in accommodating an emergent Fleet requirement and serve as an example that the flexibility inherent in this ECP-based Acquisition Strategy is responsive to Fleet customer concerns.

The P-8A Acquisition Strategy (AS), first approved by the Under Secretary of Defense for Acquisition, Technology and Logistics (USD (AT&L)) at Milestone B in 2004, establishes the strategy to deliver full P-8A capability via three increments (then Block 1, Spiral 1 and Spiral 2 and now called Increments 1, 2, and 3). Increment 1 (Block 1 under PE 0605500N) provided persistent ASW, ASuW, and ISR. Increment 2 (Spiral 1 under PE 0605500N) provided improved ASW capabilities via multiple ECPs. On 4 April 2016, the MDA (USD AT&L) approved the incorporation of Increment 3 (Spiral 2) communications, Combat Systems Architecture, ASW Signals Intelligence, ASuW Net Enabled Weapon, Wideband SATCOM, Higher than Secret security enclave and Enhanced Multi-static Active Coherent (MAC-E) as ECPs (ECP 4-7) within the existing P-8A program as defined in the approved AS.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Navy												Date: February 2020			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
1319 / 5				PE 0605504N / Multi-Mission Maritime (MMA) Inc III				3218 / P-8A Spiral 2 Development							
Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary HW Dev - Capability Dev & Integration	C/CPFF	Boeing : Seattle, WA	92.727	50.315	Oct 2018	26.998	Oct 2019	0.000		-		0.000	0.000	170.040	170.040
Primary HW Dev - Trainer Dev & Integration	TBD	Boeing : St. Louis, MO	0.000	4.170	Feb 2019	5.895	Feb 2020	14.555	Feb 2021	-		14.555	57.000	81.620	81.620
Primary HW Dev - Combat Systems Hardware Effort	Various	NSWC : Crane, IN	28.862	23.874	Oct 2018	18.818	Oct 2019	10.000	Oct 2020	-		10.000	0.000	81.554	81.554
Primary HW Dev - Platform Integration	C/CPFF	Boeing : Seattle, WA	0.000	14.442	Feb 2019	34.524	Oct 2019	75.669	Oct 2020	-		75.669	187.286	311.921	311.921
Primary HW Dev - Wideband SATCOM Terminal	C/CPFF	AMEWAS/DTB : California, MD	7.420	5.904	Mar 2019	0.000		0.000		-		0.000	0.000	13.324	13.324
ECP6/7 Pre/Post Flight Ground System Development Activities	Various	Various : Various	0.000	0.000		0.000		7.900	Feb 2021	-		7.900	33.700	41.600	41.600
LCI Development & Integration/Correction of Deficiencies	Various	Various : Various	80.454	31.029	Oct 2018	28.973	Oct 2019	25.144	Oct 2020	-		25.144	113.063	278.663	-
Sys Eng (gov)	WR	NAWC AD : Pax River, MD	40.372	18.050	Nov 2018	10.018	Nov 2019	15.432	Nov 2020	-		15.432	39.844	123.716	-
Prior Year Prd Dev costs no longer funded in the FYDP	Various	Various : Various	48.109	0.000		0.000		0.000		-		0.000	0.000	48.109	-
<b>Subtotal</b>			297.944	147.784		125.226		148.700		-		148.700	430.893	1,150.547	N/A
Support (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Integrated Logistics Sup	WR	NAWC AD : Pax River, MD	1.963	0.263	Nov 2018	0.000		0.918	Nov 2020	-		0.918	1.836	4.980	-
Studies & Analysis	C/CPFF	JHU : Pax River, MD	8.816	3.130	Nov 2018	0.000		0.000		-		0.000	0.000	11.946	11.946

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Navy												Date: February 2020			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)					Project (Number/Name)						
1319 / 5				PE 0605504N / Multi-Mission Maritime (MMA) Inc III					3218 / P-8A Spiral 2 Development						
<b>Support (\$ in Millions)</b>				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
<b>Subtotal</b>			10.779	3.393		0.000		0.918		-		0.918	1.836	16.926	N/A
<b>Test and Evaluation (\$ in Millions)</b>				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Dev Test & Eval	WR	NAWC AD : Pax River, MD	8.044	1.830	Nov 2018	7.988	Nov 2019	13.896	Nov 2020	-		13.896	Continuing	Continuing	Continuing
GFE/GFI/GFP	WR	NAWC AD : Pax River, MD	2.545	0.000		0.000		7.983	Nov 2020	-		7.983	21.667	32.195	-
Oper Test & Eval	WR	NAWC AD : Pax River, MD	0.000	0.000		0.000		5.040	Nov 2020	-		5.040	15.562	20.602	-
Test Assets	WR	NAWC AD : Pax River, MD	0.000	0.000		0.000		4.656	Nov 2020	-		4.656	18.187	22.843	-
<b>Subtotal</b>			10.589	1.830		7.988		31.575		-		31.575	Continuing	Continuing	N/A
<b>Management Services (\$ in Millions)</b>				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Eng Tech Serv (NON-FFRDC)	C/CPFF	Various : Various	0.118	0.991	Nov 2018	0.000		0.000		-		0.000	0.000	1.109	1.209
Mgmt Suppt Serv (NON-FFRDC)	C/CPFF	RBC : Alexandria, VA	2.586	0.527	Nov 2018	0.110	Nov 2019	1.377	Nov 2020	-		1.377	4.154	8.754	11.021
Program Mgmt Support	WR	NAWC AD : Pax River, MD	1.627	0.179	Nov 2018	0.160	Nov 2019	0.200	Nov 2020	-		0.200	0.800	2.966	-
Travel	Allot	NAWC AD : Pax River, MD	0.035	0.041	Nov 2018	0.050	Nov 2019	0.100	Nov 2020	-		0.100	0.400	0.626	-
<b>Subtotal</b>			4.366	1.738		0.320		1.677		-		1.677	5.354	13.455	N/A

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	<b>Prior Years</b>	<b>FY 2019</b>		<b>FY 2020</b>		<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	323.678	154.745		133.534		182.870	-	182.870	Continuing	Continuing	N/A

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2021 Navy</b>		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605504N / <i>Multi-Mission Maritime (MMA) Inc III</i>	<b>Project (Number/Name)</b> 3218 / <i>P-8A Spiral 2 Development</i>

**P-8A Increment 3 (Spiral 2) ECP-5 Program Schedule (PB-21)**

Increment 3 (PU: 3218)	FY19				FY20				FY21				FY22				FY23				FY24				FY25			
	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
<b>ECP 5 Milestones</b>																												
ECP 5 / Harpoon II+ SW Development (Govt / Boeing)																												
ECP 5 Test and Evaluation (Govt)																												

- Notes: (1) ECP 5 SW except for Harpoon II+ fielded with FR75.1 Aug 2019  
 (2) ECP 5 HW fielded with production lot 8 aircraft #12 Sep 2019  
 (3) Complete ECP 5 including Harpoon II+ fields with FR85 in Dec 2020

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Navy

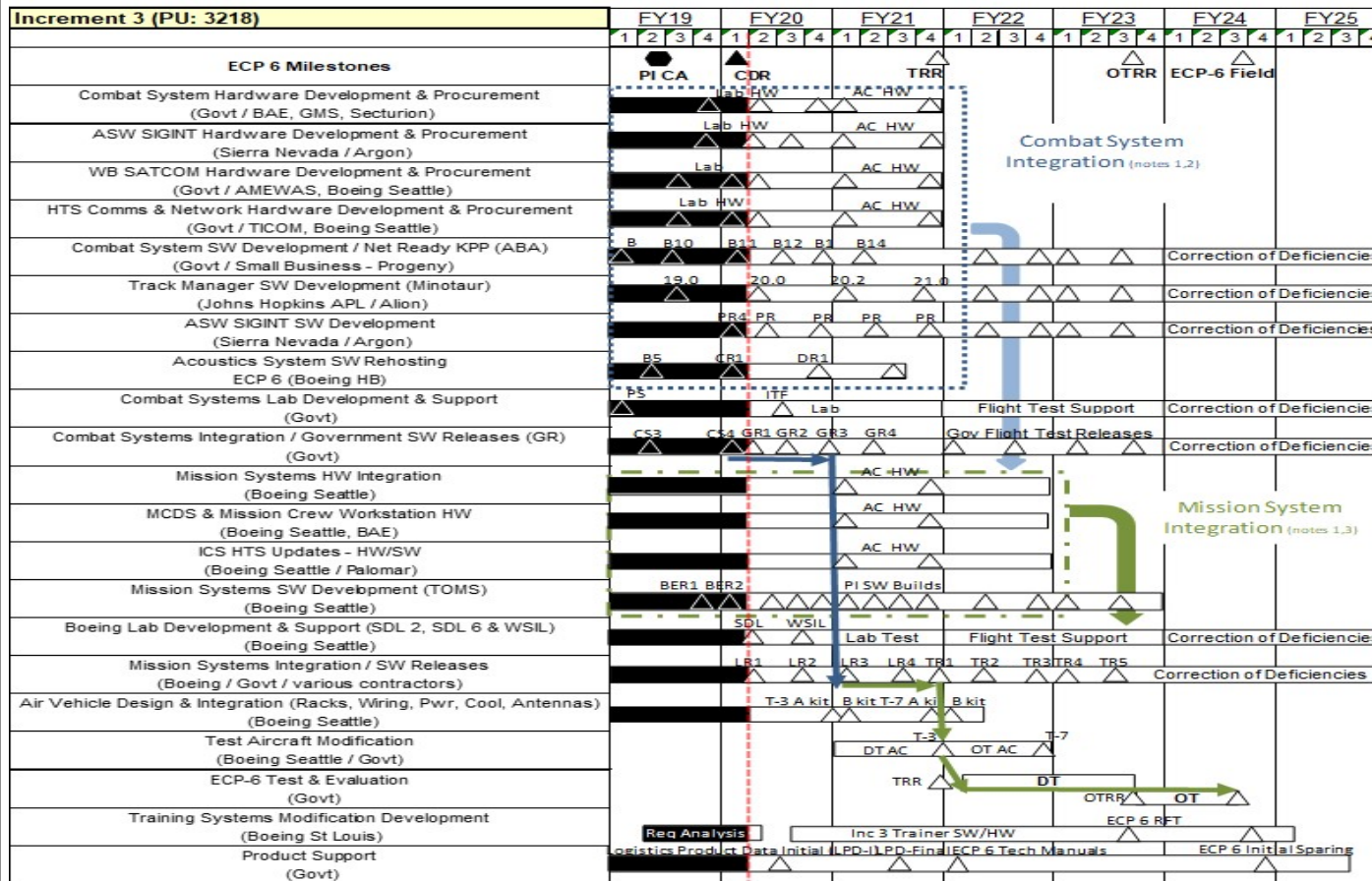
Date: February 2020

Appropriation/Budget Activity  
1319 / 5

R-1 Program Element (Number/Name)  
PE 0605504N / Multi-Mission Maritime  
(MMA) Inc III

Project (Number/Name)  
3218 / P-8A Spiral 2 Development

P-8A Increment 3 (Spiral 2) ECP-6 Program Schedule (PB-21)

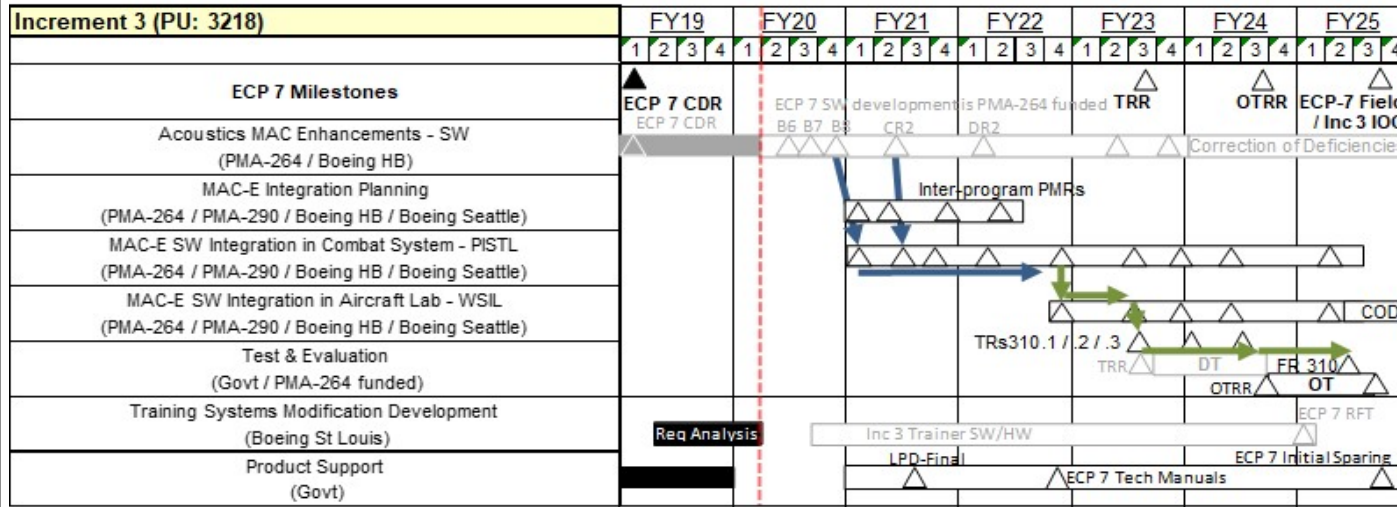


Notes: (1) Subsystem efforts continue to support integration and test through deficiency correction  
 (2) Combat system integration includes Govt-led efforts for software, hardware, aircraft integration, and deficiency correction  
 (3) Mission system integration includes Boeing efforts for software, hardware, aircraft integration, and deficiency correction

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**P-8A Increment 3 (Spiral 2) ECP-7 Program Schedule (PB-21)**

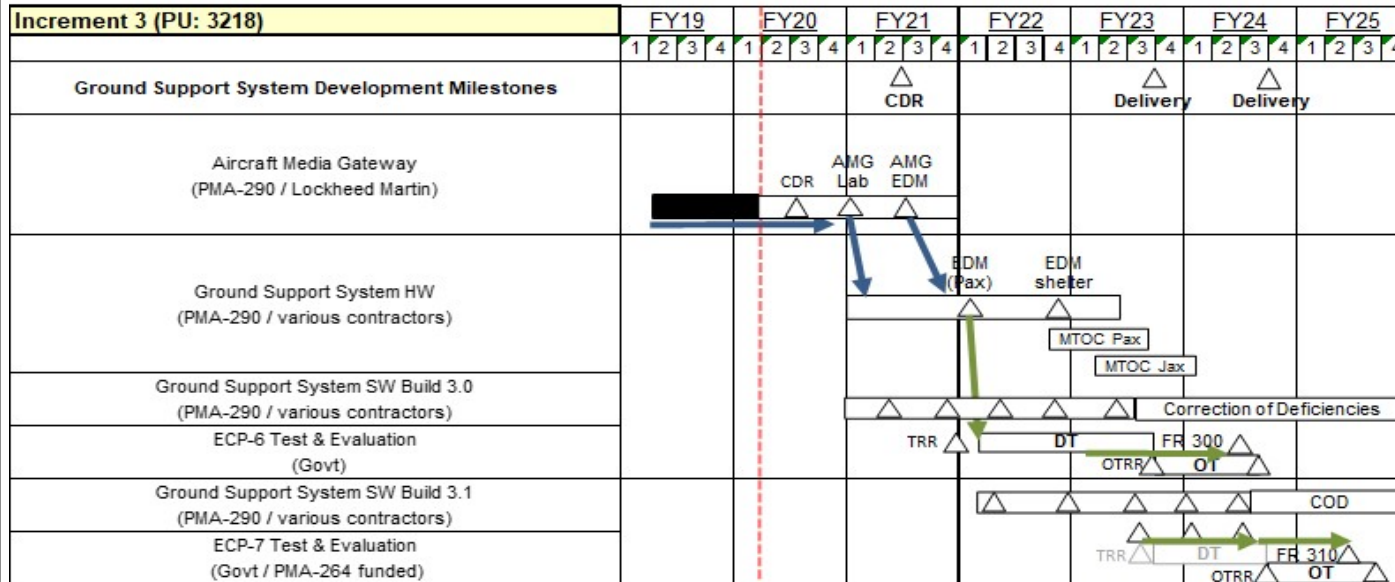


Notes: (1) This PU funds integration costs not unique to ECP 7 development  
 (2) The PMA-264 Acoustic Search Sensor PE (0604216N) funds ECP 7 development and test costs unique to ECP 7 (grayed out above)

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2021 Navy</b>		<b>Date:</b> February 2020
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**P-8A Pre/Post-Flight Ground Support System Development Schedule (PB-21)**



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<b>Exhibit R-4A, RDT&amp;E Schedule Details: PB 2021 Navy</b>		<b>Date: February 2020</b>
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**Schedule Details**

<b>Events by Sub Project</b>	<b>Start</b>		<b>End</b>	
	<b>Quarter</b>	<b>Year</b>	<b>Quarter</b>	<b>Year</b>
<b>ECP-5</b>				
ECP-5: Milestones: IFTU Contract Mod	2	2019	2	2019
ECP-5: Milestones: SW Field Except Harpoon II+	4	2019	4	2019
ECP-5: Milestones: HW Field	1	2020	1	2020
ECP-5: Milestones: SW Field Incl Harpoon II+	4	2020	4	2020
ECP-5: Milestones: ECP-5 Field	1	2021	1	2021
ECP-5: Capability Development & Integration: ECP-5/Harpoon II+ SW Development	1	2019	1	2021
ECP-5: Integrated Flight Test & Evaluation: ECP-5 Test & Evaluation	1	2019	2	2021
<b>ECP-6</b>				
ECP-6: Milestones: Platform Integration Contract Award	2	2019	2	2019
ECP-6: Milestones: CDR	1	2020	1	2020
ECP-6: Milestones: TRR	4	2021	4	2021
ECP-6: Milestones: OTRR	3	2023	3	2023
ECP-6: Milestones: ECP-6 Field	3	2024	3	2024
ECP-6: Combat System / Mission System Integration: ECP-6 Integration	1	2019	4	2023
ECP-6: Integrated Flight Test & Evaluation: ECP-6 T&E	2	2022	3	2024
ECP-6: Correction of Deficiencies: Correction of Deficiencies	1	2024	4	2025
<b>ECP-7</b>				
ECP-7: Milestones: ECP-7 CDR	1	2019	1	2019
ECP-7: Milestones: TRR	3	2023	3	2023
ECP-7: Milestones: OTRR	3	2024	3	2024
ECP-7: Milestones: ECP-7 Field/Inc3 IOC	3	2025	3	2025

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**Exhibit R-4A, RDT&E Schedule Details: PB 2021 Navy** **Date:** February 2020

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605504N / <i>Multi-Mission Maritime (MMA) Inc III</i>	<b>Project (Number/Name)</b> 3218 / <i>P-8A Spiral 2 Development</i>
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<b>Events by Sub Project</b>	<b>Start</b>		<b>End</b>	
	<b>Quarter</b>	<b>Year</b>	<b>Quarter</b>	<b>Year</b>
ECP-7: Capability Development & Integration: MAC-E Integration	1	2021	2	2025
ECP-7: Integrated Flight Test & Evaluation: ECP-7 T&E	3	2023	3	2025
ECP-7: Correction of Deficiencies: Correction of Deficiencies	2	2025	4	2025
<b><i>Pre/Post-Flight Ground Support System Development</i></b>				
Ground Support System Development: Milestones: Ground Support System Development CDR	2	2021	2	2021
Ground Support System Development: Milestones: Ground Support System Development DT	3	2023	3	2023
Ground Support System Development: Milestones: Ground Support System Development OT	3	2024	3	2024
Ground Support System Development: Capability Development & Integration: Ground Support System Development & Integration	1	2021	2	2023
Ground Support System Development: Test & Evaluation: Ground Support System Development T&E (ECP 6&7)	2	2022	3	2025
Ground Support System Development: Correction of Deficiencies: Correction of Deficiencies	3	2023	4	2025

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**Exhibit R-2A, RDT&E Project Justification:** PB 2021 Navy **Date:** February 2020

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605504N / <i>Multi-Mission Maritime (MMA) Inc III</i>	<b>Project (Number/Name)</b> 9999 / <i>Congressional Adds</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
9999: <i>Congressional Adds</i>	0.000	4.827	8.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	12.827
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

Congressional Add to enable small business support to P-8A Increment 3 development of Applications Based Architecture (ABA) components.

**B. Accomplishments/Planned Programs (\$ in Millions)**

	FY 2019	FY 2020
<b>Congressional Add:</b> New Design SSN SBIR (Cong)	4.827	0.000
<b>FY 2019 Accomplishments:</b> ABA based applications and capability development, integration and test to incrementally incorporate software improvements in support of P-8A Increment 3 Combat Systems.		
<b>FY 2020 Plans:</b> N/A		
<b>Congressional Add:</b> SBIR Technology Insertion	0.000	8.000
<b>FY 2019 Accomplishments:</b> N/A		
<b>FY 2020 Plans:</b> ABA based applications and capability development, integration and test to incrementally incorporate software improvements in support of P-8A Increment 3 Combat Systems.		
<b>Congressional Adds Subtotals</b>	4.827	8.000

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

N/A

**Remarks**

**D. Acquisition Strategy**

The ABA will be fielded as part of the P-8A Increment 3 Block 2 (ECP 6) modification to delivered aircraft.



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**Exhibit R-4, RDT&E Schedule Profile: PB 2021 Navy** **Date:** February 2020

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605504N / <i>Multi-Mission Maritime (MMA) Inc III</i>	<b>Project (Number/Name)</b> 9999 / <i>Congressional Adds</i>
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<b>Proj 9999</b>	<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>FY 2022</b>				<b>FY 2023</b>				<b>FY 2024</b>				<b>FY 2025</b>							
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q				
New Design SSN SBIR (CONG)																																

2021PB - 0605504N - 9999

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2021 Navy		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605504N / <i>Multi-Mission Maritime (MMA) Inc III</i>	<b>Project (Number/Name)</b> 9999 / <i>Congressional Adds</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 9999</b>				
New Design SSN SBIR (CONG): Schedule Detail	3	2019	2	2021