

# UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605504N I (U)Multi-Mission Maritime (MMA) Increment III							
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	199.930	123.752	163.809	177.234	-	177.234	145.254	123.514	126.014	133.623	Continuing	Continuing
3218: P-8A Spiral 2 Development	199.930	123.752	158.809	177.234	-	177.234	145.254	123.514	126.014	133.623	Continuing	Continuing
9999: Congressional Adds	0.000	0.000	5.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	5.000
Program MDAP/MAIS Code: Project MDAP/MAIS Code(s): 334												
A. Mission Description and Budget Item Justification												
<p>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), and Higher-Than-Secret (HTS) security capability.</p> <p>These capabilities will be developed as a series of ECPs for the P-8A and are as follows:</p> <ul style="list-style-type: none"><li>- ECP 4 - Software upgrades to Narrowband SATCOM and Radar Targeting. (FIELDDED FY18)</li><li>- ECP 5 - Net Enabled Weapon Data Link, High Frequency radio Internet Protocol (HF-IP), Integrated Broadcast Service (IBS) filtering, IBS receiver, and Harpoon II+. (TO BE FIELDDED FY20)</li><li>- 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.</li><li>- ECP 7 - Enhanced Multi-Static Active Coherent (MAC).</li></ul> <p>To expedite fielding capability to the P-8A Fleet, ECPs 4, 5, and 6 are executed concurrently as these capabilities are independent of one another. However, Enhanced MAC (ECP 7) 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 planned to be awarded 2Q FY2019. ECP 6 integration activities will begin 1Q FY2019 with initiation of the Government Lead Capability Integrator (LCI) integration and upon award of the Platform Integration (PI) contract in 2Q FY2019. ECP 7 integration activities will begin 1Q 2020. Enhanced MAC (ECP 7) is developed within Program Element (PE) 0604261N and integrated via the Platform Integration contract within this PE.</p> <p>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.</p>												

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PE 0605504N: (U)Multi-Mission Maritime (MMA) Incremen...  
Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy										Date: March 2019		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605504N / (U)Multi-Mission Maritime (MMA) Increment III				Project (Number/Name) 3218 / P-8A Spiral 2 Development			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
3218: P-8A Spiral 2 Development	199.930	123.752	158.809	177.234	-	177.234	145.254	123.514	126.014	133.623	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		
Project MDAP/MAIS Code: 334												
A. Mission Description and Budget Item Justification												
<p>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), and Higher-Than-Secret (HTS) security capability.</p> <p>These capabilities will be developed as a series of ECPs for the P-8A and are as follows:</p> <ul style="list-style-type: none"><li>- ECP 4 - Software upgrades to Narrowband SATCOM and Radar Targeting. (FIELDED FY18)</li><li>- ECP 5 - Net Enabled Weapon Data Link, High Frequency radio Internet Protocol (HF-IP), Integrated Broadcast Service (IBS) filtering, IBS receiver, and Harpoon II+. (TO BE FIELDED FY20)</li><li>- 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.</li><li>- ECP 7 - Enhanced Multi-Static Active Coherent (MAC).</li></ul> <p>To expedite fielding capability to the P-8A Fleet, ECPs 4, 5, and 6 are executed concurrently as these capabilities are independent of one another. However, Enhanced MAC (ECP 7) 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 planned to be awarded 2Q FY2019. ECP 6 integration activities will begin 1Q FY2019 with initiation of the Government Lead Capability Integrator (LCI) integration and upon award of the Platform Integration (PI) contract in 2Q FY2019. ECP 7 integration activities will begin 1Q 2020. Enhanced MAC (ECP 7) is developed within Program Element (PE) 0604261N and integrated via the Platform Integration contract within this PE.</p> <p>Note: This PE was re-phased due to Congressional adjustments through FY2018 which changed the FY19 and FY20 plans.</p> <p>Note: ECP 6 fielding in 1Q2024 includes 7 aircraft (1 squadron) modified, trained and ready to deploy.</p>												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Title: Product Development								113.077	146.836	154.613	0.000	154.613

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy				Date: March 2019		
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0605504N I (U)Multi-Mission Maritime (MMA) Increment III		Project (Number/Name) 3218 I P-8A Spiral 2 Development		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Articles:		-	-	-	-	-
FY 2019 Plans: Initiation of the Government LCI integration activities. Award Platform Integration (PI) contract with Boeing to integrate primarily government developed ECP 6 capability into the P-8A. Continue ECP-5 integration and test efforts. Begin ECP 6 integration activities. Note: ECP 6 enables most of the warfighting capability improvements that Increment 3 brings to the P-8. Continue Government-led LCI efforts, associated ground support, TOC, and training systems upgrades.						
FY 2020 Base Plans: Complete ECP 5 integration, test efforts and fielding. Continue ECP 6 integration on the Platform Integration (PI) contract and initiate ECP 7 integration efforts. Continue Government-led LCI efforts, associated ground support, TOC, and training systems upgrades.						
FY 2020 OCO Plans: Not applicable.						
FY 2019 to FY 2020 Increase/Decrease Statement: This increase of \$7.777 million is due to increased ECP 6 and LCI integration activities. Note: ECP 6 enables most of the warfighting capability improvements that Increment 3 brings to the P-8.						
Title: Support/Test & Evaluation/Management Services		10.675	11.973	22.621	0.000	22.621
Articles:		-	-	-	-	-
FY 2019 Plans: Continue associated in-house government LCI/T&E/management activities.						
FY 2020 Base Plans: Continue associated in-house government LCI/T&E/management activities.						
FY 2020 OCO Plans: Not applicable.						
FY 2019 to FY 2020 Increase/Decrease Statement: This increase of \$10.648 million is driven by increased test requirements for ECP 5 (primarily Harpoon) combined with initiation of test planning efforts for ECP 6.						
Accomplishments/Planned Programs Subtotals		123.752	158.809	177.234	0.000	177.234

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy									Date: March 2019		
Appropriation/Budget Activity 1319 / 5				R-1 Program Element (Number/Name) PE 0605504N / (U)Multi-Mission Maritime (MMA) Increment III				Project (Number/Name) 3218 / P-8A Spiral 2 Development			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
• APN/0586: P-8 Series	14.783	67.416	107.423	-	107.423	216.964	296.070	339.155	347.788	1,688.570	3,166.488
Remarks											
BLI0586 reflects the P-8A total program funding not just Increment 3.											
D. Acquisition Strategy											
In 2016 USD AT&L directed Increment 3 efforts to be merged into the P-8 MDAP with capabilities delivered as a series of Engineering Change Proposals (ECPs). Increment 3 capabilities were broken into ECPs 4-7 to expedite delivery to the Fleet. P-8A is an ACAT IC program under the MDA oversight of ASN (RDA). As part of that program Increment 3 is subject to all of the same statutory and regulatory reporting requirements as it would be as a separate MDAP. P-8A completed its most recent annual MDAP Gate 6 review in November 2018. Each Increment 3 ECP is a separate effort with its own development, integration, fielding, and sustainment activities.											
E. Performance Metrics											
Continue development of capability ECPs.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Navy												Date: March 2019			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0605504N / (U)Multi-Mission Maritime (MMA) Increment III				Project (Number/Name) 3218 / P-8A Spiral 2 Development					
Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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 Hdw Dev - RR Interface	C/CPIF	Boeing : Seattle, WA	5.803	0.000		0.000		0.000		-		0.000	0.000	5.803	5.803
Primary HW Dev - Capability Analysis	C/CPFF	Boeing : Seattle, WA	8.917	0.000		0.000		0.000		-		0.000	0.000	8.917	8.917
Primary HW Dev - Capability Dev & Integration	C/CPFF	Boeing : Seattle, WA	50.626	40.802	Oct 2017	49.206	Oct 2018	24.998	Oct 2019	-		24.998	0.000	165.632	165.632
Primary HW Dev - Trainer Dev & Integration	TBD	Boeing : St. Louis, MO	0.000	0.000		5.000	Jan 2019	13.858	Mar 2020	-		13.858	71.555	90.413	90.413
Primary HW Dev - ABA SW Dev Vendor A	C/CPIF	Raytheon : Dallas, TX	5.986	0.000		0.000		0.000		-		0.000	0.000	5.986	5.986
Primary HW Dev - ABA SW Dev Vendor B	C/CPIF	Lockheed Martin : Manassas, VA	10.086	0.000		0.000		0.000		-		0.000	0.000	10.086	10.086
Primary HW Dev - Combat Systems Hardware Effort	Various	NSWC : Crane, IN	7.636	25.777	Oct 2017	20.803	Oct 2018	10.818	Oct 2019	-		10.818	10.000	75.034	-
Primary HW Dev - Platform Integration	C/CPFF	Boeing : Seattle, WA	0.000	0.000		30.542	Feb 2019	65.006	Oct 2019	-		65.006	246.855	342.403	342.403
Primary HW Dev - Wideband SATCOM Terminal	C/CPFF	AMEWAS : California, MD	6.772	0.000		0.000		0.000		-		0.000	0.000	6.772	6.772
RCI2 - ECP3	C/CPFF	Boeing : Seattle, WA	17.317	0.000		0.000		0.000		-		0.000	0.000	17.317	17.317
LCI Development & Integration	Various	Various : Various	42.636	29.722	Oct 2017	23.453	Oct 2018	22.103	Oct 2019	-		22.103	68.908	186.822	-
Sys Eng (gov)	WR	NAWC AD : Pax River, MD	26.219	16.776	Nov 2017	17.832	Nov 2018	17.830	Nov 2019	-		17.830	50.255	128.912	-
Subtotal			181.998	113.077		146.836		154.613		-		154.613	447.573	1,044.097	N/A

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2020 Navy</b>												<b>Date: March 2019</b>			
<b>Appropriation/Budget Activity</b> 1319 / 5						<b>R-1 Program Element (Number/Name)</b> PE 0605504N / (U)Multi-Mission Maritime (MMA) Increment III						<b>Project (Number/Name)</b> 3218 / P-8A Spiral 2 Development			
<b>Support (\$ in Millions)</b>				<b>FY 2018</b>		<b>FY 2019</b>		<b>FY 2020 Base</b>		<b>FY 2020 OCO</b>		<b>FY 2020 Total</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>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Integrated Logistics Sup	WR	NAWC AD : Pax River, MD	1.708	0.356	Nov 2017	0.918	Nov 2018	0.918	Nov 2019	-		0.918	2.754	6.654	-
Studies & Analysis	C/CPFF	JHU : Pax River, MD	6.717	2.232	Nov 2017	2.250	Nov 2018	2.318	Nov 2019	-		2.318	0.000	13.517	13.517
<b>Subtotal</b>			8.425	2.588		3.168		3.236		-		3.236	2.754	20.171	N/A
<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2018</b>		<b>FY 2019</b>		<b>FY 2020 Base</b>		<b>FY 2020 OCO</b>		<b>FY 2020 Total</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>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Dev Test & Eval	WR	NAWC AD : Pax River, MD	5.034	4.938	Nov 2017	5.647	Nov 2018	8.682	Nov 2019	-		8.682	Continuing	Continuing	Continuing
GFE/GFI/GFP	WR	NAWC AD : Pax River, MD	1.215	1.787	Nov 2017	1.198	Nov 2018	4.713	Nov 2019	-		4.713	28.051	36.964	-
Oper Test & Eval	WR	NAWC AD : Pax River, MD	0.000	0.000		0.000		1.964	Nov 2019	-		1.964	23.570	25.534	-
Test Assets	WR	NAWC AD : Pax River, MD	0.000	0.000		0.000		0.885	Nov 2019	-		0.885	20.593	21.478	-
<b>Subtotal</b>			6.249	6.725		6.845		16.244		-		16.244	Continuing	Continuing	N/A
<b>Management Services (\$ in Millions)</b>				<b>FY 2018</b>		<b>FY 2019</b>		<b>FY 2020 Base</b>		<b>FY 2020 OCO</b>		<b>FY 2020 Total</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>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Eng Tech Serv (NON-FFRDC)	C/CPFF	Various : Various	0.118	0.072	Nov 2017	0.000	Nov 2018	0.000		-		0.000	0.000	0.190	0.190
Mgmt Suppt Serv (NON-FFRDC)	C/CPFF	RBC : Alexandria, VA	1.996	0.590	Nov 2017	1.260	Nov 2018	2.377	Nov 2019	-		2.377	4.831	11.054	11.054
Program Mgmt Support	WR	NAWC AD : Pax River, MD	1.125	0.600	Nov 2017	0.600	Nov 2018	0.664	Nov 2019	-		0.664	1.992	4.981	-
Travel	Allot	NAWC AD : Pax River, MD	0.019	0.100	Nov 2017	0.100	Nov 2018	0.100	Nov 2019	-		0.100	0.400	0.719	-

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2020 Navy</b>												<b>Date:</b> March 2019		
<b>Appropriation/Budget Activity</b> 1319 / 5						<b>R-1 Program Element (Number/Name)</b> PE 0605504N / (U)Multi-Mission Maritime (MMA) Increment III				<b>Project (Number/Name)</b> 3218 / P-8A Spiral 2 Development				

Management Services (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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>			3.258	1.362		1.960		3.141		-		3.141	7.223	16.944	N/A

	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	199.930	123.752	158.809	177.234	-	177.234	Continuing	Continuing	N/A

**Remarks**



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Exhibit R-4, RDT&E Schedule Profile: PB 2020 Navy

Date: March 2019

Appropriation/Budget Activity

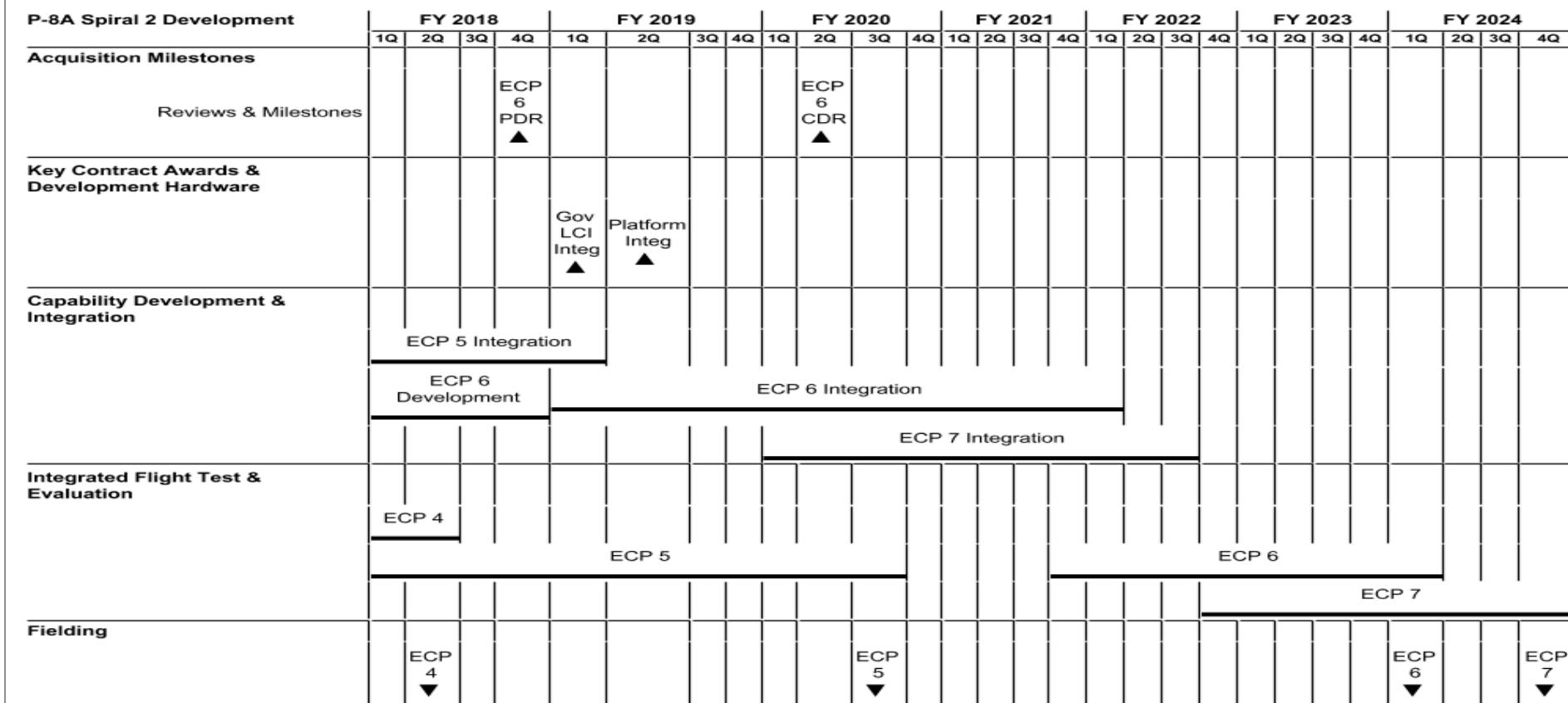
1319 / 5

R-1 Program Element (Number/Name)

PE 0605504N / (U)Multi-Mission Maritime  
(MMA) Increment III

Project (Number/Name)

3218 / P-8A Spiral 2 Development



2020PB - 0605504N - 3218

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2020 Navy			<b>Date:</b> March 2019
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605504N / (U)Multi-Mission Maritime (MMA) Increment III	<b>Project (Number/Name)</b> 3218 / P-8A Spiral 2 Development	

**Schedule Details**

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>P-8A Spiral 2 Development</i></b>				
Acquisition Milestones: Reviews & Milestones: ECP 6 Preliminary Design Review (PDR)	4	2018	4	2018
Acquisition Milestones: Reviews & Milestones: ECP 6 Critical Design Review (CDR)	2	2020	2	2020
Key Contract Awards & Development Hardware: Platform Integration	2	2019	2	2019
Key Contract Awards & Development Hardware: Government LCI Integration	1	2019	1	2019
Capability Development & Integration: ECP 5 Integration	1	2018	1	2019
Capability Development & Integration: ECP 6 Development	1	2018	4	2018
Capability Development & Integration: ECP 6 Integration	1	2019	1	2022
Capability Development & Integration: ECP 7 Integration	1	2020	3	2022
Integrated Flight Test & Evaluation: ECP 4	1	2018	2	2018
Integrated Flight Test & Evaluation: ECP 5	1	2018	3	2020
Integrated Flight Test & Evaluation: ECP 6	4	2021	1	2024
Integrated Flight Test & Evaluation: ECP 7	4	2022	4	2024
Fielding: ECP 4	2	2018	2	2018
Fielding: ECP 5	3	2020	3	2020
Fielding: ECP 6	1	2024	1	2024
Fielding: ECP 7	4	2024	4	2024

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2020 Navy										<b>Date:</b> March 2019		
<b>Appropriation/Budget Activity</b> 1319 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0605504N / (U)Multi-Mission Maritime (MMA) Increment III				<b>Project (Number/Name)</b> 9999 / Congressional Adds			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020 Base</b>	<b>FY 2020 OCO</b>	<b>FY 2020 Total</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
9999: Congressional Adds	0.000	0.000	5.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	5.000
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)**

	<b>FY 2018</b>	<b>FY 2019</b>
<b>Congressional Add:</b> New Design SSN SBIR (Cong)	0.000	5.000
<b>FY 2018 Accomplishments:</b> N/A		
<b>FY 2019 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>	0.000	5.000

**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.

**E. Performance Metrics**  
N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Navy												Date: March 2019					
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0605504N I (U)Multi-Mission Maritime (MMA) Increment III						Project (Number/Name) 9999 I Congressional Adds					
Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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 - Progeny	C/CPFF	PROGENY : Manassas, VA	0.000	0.000		4.500	Jun 2019	0.000		-		0.000	0.000	4.500	-		
Primary HW Dev	WR	NAWC AD : Pax River, MD	0.000	0.000		0.024	Jan 2019	0.000		-		0.000	0.000	0.024	-		
Subtotal			0.000	0.000		4.524		0.000		-		0.000	0.000	4.524	N/A		
Management Services (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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		
Mgmt Suppt Serv (NON- FFRDC)	C/CPFF	RBC : Alexandria, VA	0.000	0.000		0.476	Jun 2019	0.000		-		0.000	0.000	0.476	-		
Subtotal			0.000	0.000		0.476		0.000		-		0.000	0.000	0.476	N/A		
			Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals			0.000	0.000		5.000		0.000		-		0.000	0.000	5.000	N/A		
Remarks																	

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PE 0605504N: (U)Multi-Mission Maritime (MMA) Increment...  
Navy

R-1 Line #166

**Appropriation/Budget Activity**  
1319 / 5

**R-1 Program Element (Number/Name)**  
PE 0605504N I (U)Multi-Mission Maritime  
(MMA) Increment III

**Project (Number/Name)**  
9999 / Congressional Adds

2020PB - 0605504N - 9999

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2020 Navy		<b>Date:</b> March 2019
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605504N / (U)Multi-Mission Maritime (MMA) Increment III	<b>Project (Number/Name)</b> 9999 / Congressional Adds

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	2020