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

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605504N / <i>Multi-Mission Maritime (MMA) Inc III</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	939.659	156.892	132.449	134.366	-	134.366	108.237	58.604	11.248	0.000	0.000	1,541.455
3218: <i>P-8A Spiral 2 Development</i>	939.659	156.892	132.449	134.366	-	134.366	108.237	58.604	11.248	0.000	0.000	1,541.455

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-E) 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 Increment 3 ground system requirements.

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

- 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-E).
- Pre/Post-Flight Ground System Development - System upgrades to the associated ground support system and Operations Center (TOC)/Aircraft Media Gateway (AMG) systems.

To expedite fielding of the ASW critical capability to the P-8A Fleet, ECP 6 and ECP 7 software are being integrated concurrently on to the platform. ECP 7 is reliant on ECP 6's Combat System hardware and architecture to operate on the P-8A. ECP 6 integration activities began in FY 2019 with initiation of the Government Lead Capability Integrator (LCI) integration and award of the Platform Integration (PI) contract to Boeing. ECP 7 integration activities began in FY 2021. ECP 6/7 Integrated Flight Test & Evaluation began 3Q FY 2022. Enhanced MAC-E (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 requirements identified under the baseline P-8 program between Milestone B and the Full Rate Production Decision (FRPD). Subsequent to the P-8 FRPD, the DoD Acquisition Authority directed in 2016 these Increment 3 requirements be satisfied as Engineering Change Proposals (ECPs) under the existing P-8 program vice under a separate acquisition program.

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Note: ECP 6/7 fielding in 1Q FY 2026 includes 7 aircraft (1 squadron) modified, trained and ready to deploy to include pre/post-flight ground systems.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	161.697	132.449	113.278	-	113.278
Current President's Budget	156.892	132.449	134.366	-	134.366
Total Adjustments	-4.805	0.000	21.088	-	21.088
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-4.805	0.000			
• Program Adjustments	0.000	0.000	21.501	-	21.501
• Rate/Misc Adjustments	0.000	0.000	-0.413	-	-0.413

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy										Date: March 2024		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605504N / <i>Multi-Mission Maritime (MM A) Inc III</i>				Project (Number/Name) 3218 / <i>P-8A Spiral 2 Development</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
3218: <i>P-8A Spiral 2 Development</i>	939.659	156.892	132.449	134.366	-	134.366	108.237	58.604	11.248	0.000	0.000	1,541.455
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		
Project MDAP/MAIS Code: 334												

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Note: ECP 6/7 fielding in 1Q FY 2026 includes 7 aircraft (1 squadron) modified, trained and ready to deploy to include pre/post-flight ground systems.

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Product Development	134.712	111.964	112.990	0.000	112.990
Articles:	-	-	-	-	-

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605504N / <i>Multi-Mission Maritime (MM A) Inc III</i>	Project (Number/Name) 3218 / <i>P-8A Spiral 2 Development</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
<p>FY 2024 Plans: Continue ECP 6 and ECP 7 integration on the Platform Integration (PI) contract. Continue Government-led Lead Capability Integrator (LCI) efforts, associated ground support system development, test planning, Tactical Operations Center (TOC) systems/Aircraft Media Gateway (AMG) systems, training systems upgrades, and Integrated Flight Test and Evaluation efforts.</p> <p>FY 2025 Base Plans: Continue ECP 6 and ECP 7 integration on the PI contract. Continue Government-led LCI efforts, associated ground support system development, test planning, TOC/AMG systems, training systems upgrades, and Integrated Flight Test and Evaluation efforts.</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase of \$1.026 Million from FY2024 to FY2025 is for increased product development.</p>					
<p>Title: Support/Test & Evaluation/Management Services</p> <p align="right">Articles:</p>	22.180	20.485	21.376	0.000	21.376
<p>FY 2024 Plans: Continue associated in-house government LCI/T&E/management activities. Continue associated ground support system development, training systems upgrades, operational testing, and Integrated Flight Test and Evaluation efforts.</p> <p>FY 2025 Base Plans: Continue associated in-house government LCI/T&E/management activities. Continue associated ground support system development, training systems upgrades, operational testing, and Integrated Flight Test and Evaluation efforts.</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase of \$0.891 Million from FY2024 to FY2025 is due to increased test & evaluation efforts.</p>	-	-	-	-	-
Accomplishments/Planned Programs Subtotals	156.892	132.449	134.366	0.000	134.366

UNCLASSIFIED

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605504N / <i>Multi-Mission Maritime (MM A) Inc III</i>	Project (Number/Name) 3218 / <i>P-8A Spiral 2 Development</i>

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

Line Item	FY 2023	FY 2024	FY 2025	FY 2025	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	Cost To	
			Base	OCO	Total					Complete	Total Cost
• APN/0586: <i>P-8 Series</i>	241.884	316.168	307.202	-	307.202	319.108	396.678	448.073	462.641	2,541.267	5,464.859
• OPN/2906: <i>Tactical/ Mobile C4I Systems</i>	27.434	52.026	65.113	-	65.113	70.828	60.576	61.967	63.275	Continuing	Continuing

Remarks

Procurement dollars reflected in Other Program Funding Summary reflects the total of each of those BLIs. Only a portion of the funds are associated with PU 3218.

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.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy											Date: March 2024				
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0605504N / <i>Multi-Mission Maritime (MM A) Inc III</i>					Project (Number/Name) 3218 / <i>P-8A Spiral 2 Development</i>				

Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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 - Trainer Dev & Integration	Various	Boeing : St. Louis, MO	35.533	20.000	Jul 2023	37.000	Feb 2024	56.014	Feb 2025	-		56.014	72.085	220.632	-
Primary HW Dev - Combat System Hardware Effort	Various	NSWC : Craine, IN	128.800	3.955	Nov 2023	0.000		0.000		-		0.000	0.000	132.755	-
Primary HW Dev - Platform Integration	Various	Boeing : Seattle, WA	215.452	52.095	Oct 2022	35.060	Oct 2023	24.500	Oct 2024	-		24.500	36.000	363.107	-
ECP6/7 Pre/Post Flight Ground System Development Activities	Various	Various : Various	18.200	12.500	Feb 2023	9.400	Feb 2024	1.500	Feb 2025	-		1.500	0.000	41.600	-
LCI Development & Integration/Correction of Deficiencies	Various	Various : Various	183.669	35.383	Oct 2022	21.172	Oct 2023	22.941	Oct 2024	-		22.941	21.897	285.062	-
Sys Eng (gov)	WR	NAWC AD : Pax River, MD	85.943	10.779	Nov 2022	9.332	Nov 2023	8.035	Nov 2024	-		8.035	10.337	124.426	-
Prior Year Prd Dev costs no longer funded in the FYDP	Various	Various : Various	221.059	0.000		0.000		0.000		-		0.000	0.000	221.059	-
Subtotal			888.656	134.712		111.964		112.990		-		112.990	140.319	1,388.641	N/A

Remarks

Increase in FY2025 for Trainer Development & Integration supports deliveries to the fleet beginning in FY2026.

Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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	Various	Various : Various	6.202	0.918	Nov 2022	0.000		0.000		-		0.000	0.000	7.120	-
Studies & Analysis	Various	JHU : Pax River, MD	11.946	0.000		0.000		0.000		-		0.000	0.000	11.946	-
Subtotal			18.148	0.918		0.000		0.000		-		0.000	0.000	19.066	N/A

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

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Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental Test & Evaluation (DT&E)	WR	NAWC AD : Pax River, MD	25.099	17.302	Nov 2022	15.735	Nov 2023	16.635	Nov 2024	-		16.635	29.270	104.041	-
Operational Test & Evaluation (OT&E)	WR	NAWC AD : Pax River, MD	0.000	2.283	Nov 2022	3.750	Nov 2023	3.750	Nov 2024	-		3.750	6.500	16.283	-
Subtotal			25.099	19.585		19.485		20.385		-		20.385	35.770	120.324	N/A

Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Eng Tech Serv (NON-FFRDC)	Various	Various : Various	1.774	0.000		0.000		0.000		-		0.000	0.000	1.774	-
Mgmt Suppt Serv (NON-FFRDC)	Various	RBC : Alexandria, VA	3.962	1.377	Nov 2022	0.700	Nov 2023	0.700	Nov 2024	-		0.700	1.400	8.139	-
Program Mgmt Support	WR	NAWC AD : Pax River, MD	1.906	0.200	Nov 2022	0.200	Nov 2023	0.191	Nov 2024	-		0.191	0.400	2.897	-
Travel	Allot	NAWC AD : Pax River, MD	0.114	0.100	Nov 2022	0.100	Nov 2023	0.100	Nov 2024	-		0.100	0.200	0.614	-
Subtotal			7.756	1.677		1.000		0.991		-		0.991	2.000	13.424	N/A

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals		939.659	156.892	132.449	134.366	-	134.366	178.089	1,541.455	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605504N / Multi-Mission Maritime (MM A) Inc III	Project (Number/Name) 3218 / P-8A Spiral 2 Development

P-8A Increment 3 (Spiral 2) ECP-6/7 Program Schedule 1 of 2 (PB25)

Increment 3 (PU: 3218)	FY23				FY24				FY25				FY26				FY27				FY28				FY29			
	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
ECP 6/7 Milestones								△								△												
Combat System Hardware Development & Procurement (Govt / BAE, GMS, Secturion)																												
ASW SIGINT Hardware Development & Procurement (Sierra Nevada / Argon)																												
WB SATCOM Hardware Development & Procurement (Govt / AMEWAS, Boeing Seattle)																												
HTS Comms & Network Hardware Dev & Proc (Govt / TICOM, Boeing Seattle)																												
Combat System SW Dev / Net Ready KPP (ABA) (Govt / Small Business)		B1	B1	B2	B2																							
Track Manager SW Development (Minotaur) (Johns Hopkins APL / Alion / HII)		22	23	23																								
ASW SIGINT SW Development (Sierra Nevada / Argon)																												
Acoustics System SW Rehosting ECP 6 (Boeing HB)																												
Acoustics MAC Enhancements - SW ECP 7 (PMA-264 / Boeing HB)																												
Combat Systems Lab Development & Support (Govt)																												
Combat Sys Integration / Govt SW Releases (GR) (Govt)																												

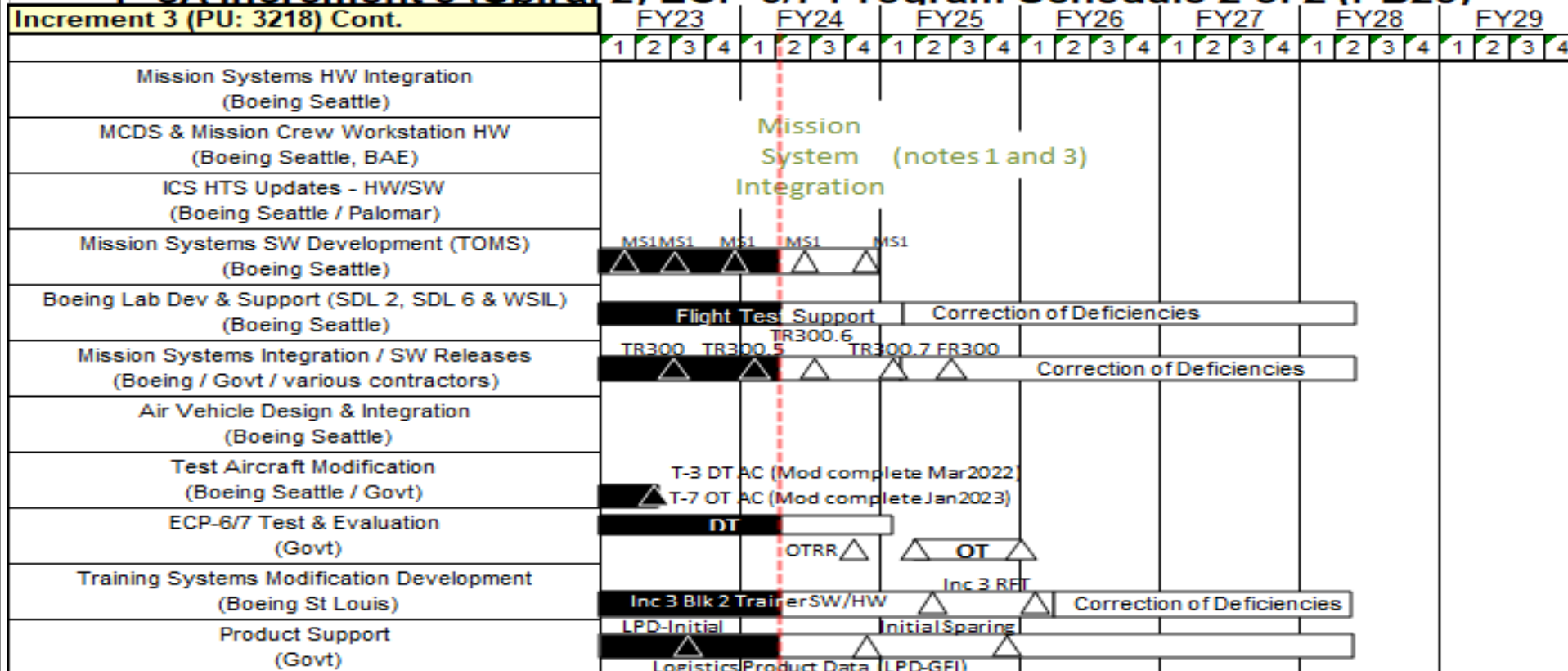
Notes: (1) Subsystem efforts continue to support integration and test through deficiency correction
 (2) Combat sys integration includes Govt-led efforts for software, hardware, aircraft integration, deficiency correction
 (3) Mission system integration includes Boeing efforts for software, hardware, aircraft integration, deficiency correction
 (4) PMA-264 Acoustic Sensor PE (0604216N) funds ECP 7 dev/test costs unique to ECP 7 (grayed out above)

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605504N / Multi-Mission Maritime (MM A) Inc III	Project (Number/Name) 3218 / P-8A Spiral 2 Development
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P-8A Increment 3 (Spiral 2) ECP-6/7 Program Schedule 2 of 2 (PB25)

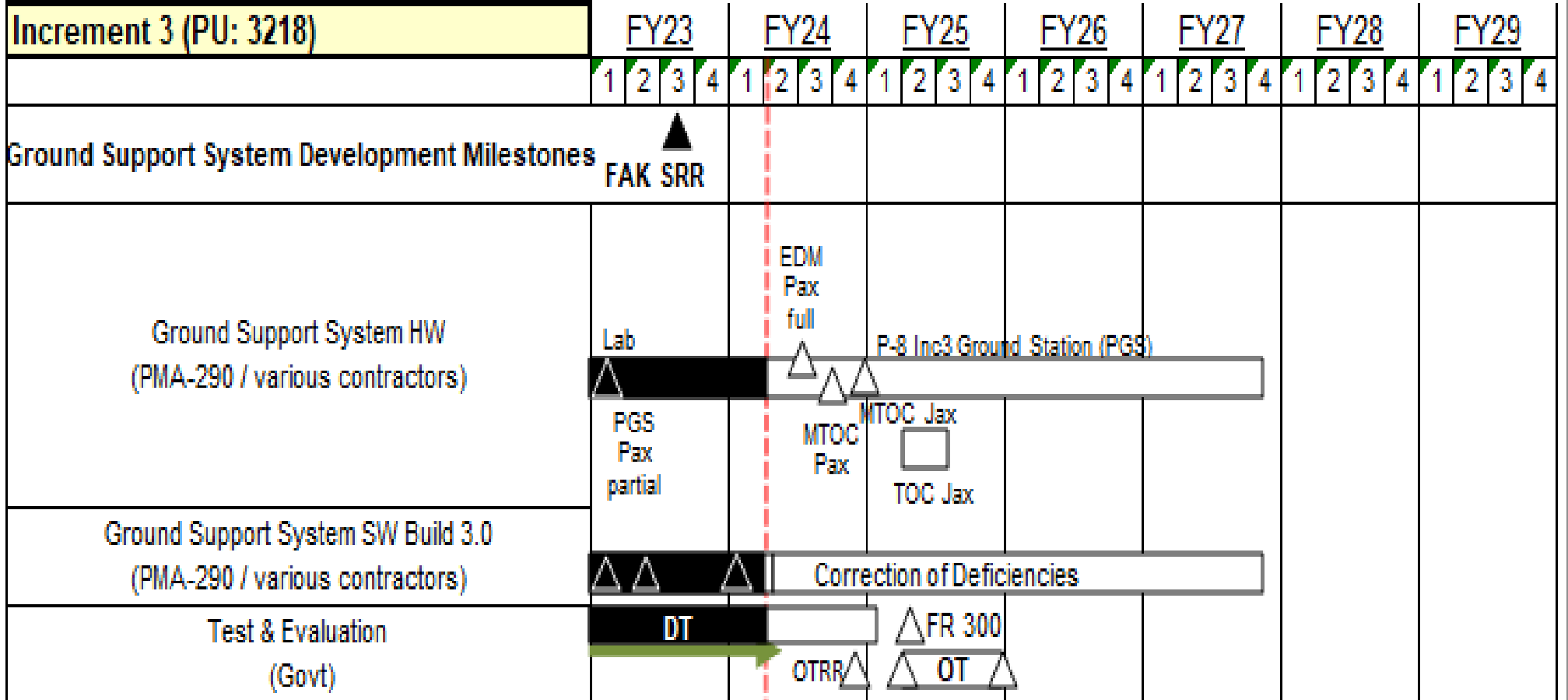


Notes: (1) Subsystem efforts continue to support integration and test through deficiency correction
 (2) Combat sys integration includes Govt-led efforts for software, hardware, aircraft integration, deficiency correction
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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
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P-8A Pre/postflight Ground Support System Development Schedule (PB25)



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

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>ECP-6/7</i>				
ECP-6/7: Milestones: OT	4	2024	4	2024
ECP-6/7: Milestones: INC3 IOC	1	2026	1	2026
ECP-6/7: Combat System / Mission System Integration: ECP-6/7 Integration	1	2023	2	2025
ECP-6/7: Integrated Flight Test & Evaluation: ECP-6/7 T&E	1	2023	4	2025
ECP-6/7: Correction of Deficiencies: Correction of Deficiencies	2	2025	2	2028
<i>Pre/Post-Flight Ground Support System Development</i>				
Ground Support System Development: Milestones: Ground Support System Hardware Development	1	2023	4	2027
Ground Support System Development: Milestones: Ground Support System Development DT	1	2023	1	2025
Ground Support System Development: Milestones: Ground Support System Development OT	4	2024	4	2025
Ground Support System Development: Correction of Deficiencies: Correction of Deficiencies	2	2024	4	2027