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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 0604282N / <i>NEXT GENERATION JAMMER (NGJ) INC II</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	393.914	73.079	250.577	209.623	-	209.623	254.109	224.741	213.695	91.583	501.091	2,212.412
3380: <i>Next Generation Jammer Inc II</i>	393.914	73.079	250.577	209.623	-	209.623	254.109	224.741	213.695	91.583	501.091	2,212.412

Program MDAP/MAIS Code:
Project MDAP/MAIS Code(s): P520

A. Mission Description and Budget Item Justification

The Next Generation Jammer (NGJ) is the next step in the evolution of Airborne Electronic Attack (AEA) and is a critical capability necessary to address current, emerging, and evolving Electronic Warfare gaps, ensure kill chain wholeness against growing threat capabilities and capacity, keep pace with enemy threat weapon systems' advancements, and support the continuous expansion of the AEA mission areas that exceed the capability of currently fielded systems. NGJ will utilize enhanced techniques and tactics to deliver significantly improved radar and communications jamming effectiveness as well as other classified capabilities. Utilizing an Open Systems Architecture that supports software and hardware updates to rapidly counter emergent and evolving threats, NGJ is a key enabler and force multiplier for operations across the spectrum of missions defined in the Defense Strategic Guidance, including strike warfare, projecting power despite highly contested environments, and counterinsurgency/irregular warfare. NGJ will also address the shortfalls in scalability, flexibility, supportability, interoperability, availability, and capability of the existing AN/ALQ-99 Tactical Jamming System.

This Program Element (PE 0604282N) supports the Next Generation Jammer - Low Band (NGJ-LB) (formerly known as Next Generation Jammer Increment 2) program. NGJ-LB will address AEA capability and sufficiency gaps against enemy threats operating in the lower frequency bands of the electromagnetic spectrum. NGJ-LB will provide the ability to effectively engage enemy threats from increased stand-off distances, employ increased capacity (number of jamming assignments) against enemy targets, and support agile employment by operators and increases survivability and lethality of 4th and 5th generation platforms and strike weapons. The NGJ-LB system will be integrated on the EA-18G tactical aircraft and will augment and then replace the legacy AN/ALQ-99 Tactical Jamming System in the low band frequencies. NGJ-LB is a Cooperative development program with Australia.

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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	135.467	250.577	285.195	-	285.195
Current President's Budget	73.079	250.577	209.623	-	209.623
Total Adjustments	-62.388	0.000	-75.572	-	-75.572
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-57.779	0.000			
• SBIR/STTR Transfer	-4.609	0.000			
• Program Adjustments	0.000	0.000	-61.148	-	-61.148
• Rate/Misc Adjustments	0.000	0.000	-14.424	-	-14.424

Change Summary Explanation

The PB25 budget submission reflects a reduction of planned activities to align with the PB25 funding profile. FY 2023 and FY 2025 have been decreased as a result of the EMD contract award delay, with FY 2024 Congressional reduction pending. Following EMD contract award, funding profile may require adjustment in future budget submissions.

Additionally, APN-5 is not currently requested in PB25 as funding is required outside the FYDP. Future budget submissions will reflect procurement funding request. PB24 included BLI 0591 OSIP 01-26 (APN-5) funding included in Cost to Complete for NGJ-LB.

Schedule updates reflect a new Engineering Manufacturing and Development (EMD) contract award date and the associated schedule impacts. Efforts through the FYDP have been updated to align with PB25 funding profile.

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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 0604282N / NEXT GENERATION JAMMER (NGJ) INC II				Project (Number/Name) 3380 / Next Generation Jammer Inc II			
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
3380: Next Generation Jammer Inc II	393.914	73.079	250.577	209.623	-	209.623	254.109	224.741	213.695	91.583	501.091	2,212.412
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: P520

A. Mission Description and Budget Item Justification

This Program Element (PE 0604282N) supports the Next Generation Jammer - Low Band (NGJ-LB) program. NGJ-LB will address Airborne Electronic Attack (AEA) capability and sufficiency gaps against enemy threats operating in the lower frequency bands of the electromagnetic spectrum. NGJ-LB will provide the ability to effectively engage enemy threats from increased stand-off distances, employ increased capacity (number of jamming assignments) against enemy targets, and support agile employment by operators and increases survivability and lethality of 4th and 5th generation platforms and strike weapons. The NGJ-LB system will be integrated on the EA-18G tactical aircraft and will augment and then replace the aging AN/ALQ-99 Tactical Jamming System in the low band frequencies.

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Next Generation Jammer Low Band Primary Hardware Development	14.270	144.096	106.331	0.000	106.331
Articles:	-	-	-	-	-
FY 2024 Plans: Award the NGJ-LB EMD contract focusing on pod (hardware and software) design, development, and development of the interim flight clearance in preparation for flight test. Conduct the Integrated Baseline Review (IBR), begin building two (2) aeromechanical test pods and two (2) mission systems test pods. Continue development of Peculiar Support Equipment (PSE), provide data to support the EA-18G H build Software Configuration Set (SCS) and training materials in cooperation with the EA-18G aircraft OEM.					
FY 2025 Base Plans: Continue execution of the NGJ-LB EMD contract focusing on pod (hardware and software) design, development which will support system performance specification verification, subsystem qualification, and support finalizing interim flight clearance in support of Technical Review-2 (TR-2). Deliver two (2) aeromechanical test pods and continue the build of two (2) mission systems test pods. Continue development of PSE, provide data to support EA-18G H build SCS and training materials in cooperation with the EA-18G aircraft OEM. Begin Basic Ordering Agreement (BOA) contracting efforts to support award of Integrated Logistics Support and other system updates.					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Advanced Development of hardware/software to meet emerging threats that must be addressed within the EMD phase. FY 2025 OCO Plans: N/A FY 2024 to FY 2025 Increase/Decrease Statement: Decrease from FY 2024 to FY 2025 due to material related phasing of funding for the aeromechanical and mission systems test pods decreasing in FY 2025.					
Title: Next Generation Jammer Low Band Systems Engineering Articles:	25.024 -	43.984 -	44.061 -	0.000 -	44.061 -
FY 2024 Plans: Continue the NGJ-LB EMD Systems Engineering efforts, which will support system performance specification verification and subsystem qualification, Software Integration Lab testing, platform software integration at government and contractor facilities, as well as Aeromechanical Flight test and Mission Systems chamber test preparation. Provide Systems Engineering support to the integration and test activities. FY 2025 Base Plans: Continue the NGJ-LB EMD Systems Engineering efforts, which will support system performance specification verification and subsystem qualification, Software Integration Lab testing, platform software integration at government and contractor facilities, as well as Aeromechanical Flight test and Mission Systems chamber test preparation. Investigate and develop NGJ-LB related techniques and capabilities, potentially in existing systems. Provide Systems Engineering support to the integration and test activities. Begin contracting efforts to award Integrated Logistics Support and other system updates. FY 2025 OCO Plans: N/A FY 2024 to FY 2025 Increase/Decrease Statement: Increase from FY 2024 to FY 2025 due to inflation.					
Title: Next Generation Jammer Low Band Support & Management Services Articles:	5.106 -	3.673 -	3.746 -	0.000 -	3.746 -
FY 2024 Plans:					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Continue support and management services associated with the NGJ-LB Program. FY 2025 Base Plans: Continue support and management services associated with the NGJ-LB Program. FY 2025 OCO Plans: N/A FY 2024 to FY 2025 Increase/Decrease Statement: Increase from FY 2024 to FY 2025 due to inflation.					
Title: Next Generation Jammer Low Band Integration	26.665	50.264	46.303	0.000	46.303
Articles:	-	-	-	-	-
FY 2024 Plans: Continue software development and aircraft integration efforts, to include Software Integration Lab testing. Continue non-recurring engineering in support of the NGJ-LB engineering change proposal and begin the delivery and installation of NGJ-LB validation and verification A-kits into test aircraft. Continue Software Anomaly Report analysis, implementation and test. Continue to support development of advanced techniques, Jammer Training Mode and Receive-Only capabilities. Continue the development of the training materials in cooperation with the NGJ-LB prime contractor for EA-18G operators and maintainers and continue Platform Integration activities. Begin Integration activities in support of the wind tunnel, ground and flight testing for NGJ-LB capability. Continue mitigation activities to reduce risk of Radio Frequency (RF) damage to platform. Conduct studies and analysis in support of NGJ-LB Interim Flight Clearance.					
FY 2025 Base Plans: Continue software development and aircraft integration efforts, to include Software Integration Lab testing and lab support. Continue non-recurring engineering in support of the NGJ-LB engineering change proposal and continue the delivery and installation of NGJ-LB validation and verification A-kits into test aircraft. Continue Software Anomaly Report analysis, implementation and test. Continue to support development of advanced techniques, Jammer Training Mode and Receive-Only capabilities. Continue the development of the training materials in cooperation with the NGJ-LB prime contractor for EA-18G operators and maintainers and begin Aircrew training events in support of DT. Continue Platform Integration activities and wind tunnel, ground and flight testing for NGJ-LB capability. Continue mitigation activities to reduce risk of RF damage to platform. Conduct studies and analysis for, and support NGJ-LB Interim Flight Clearance and test readiness events.					
FY 2025 OCO Plans:					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						
		FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
N/A						
FY 2024 to FY 2025 Increase/Decrease Statement: Funding decreases from FY 2024 to FY 2025 to reflect software and aircraft integration activities in alignment with execution of the EMD contract.						
Title: Next Generation Jammer Low Band Test & Evaluation		2.014	8.560	9.182	0.000	9.182
		Articles:	-	-	-	-
FY 2024 Plans: Continue Capabilities Test and Evaluation Planning for integrated DT/OT testing; continue Modeling and Simulation and risk reduction activities and required modifications of prospective test facilities. Review and approve OEM Test and Evaluation Program Plan. Monitor and review individual OEM verification test plans and reports. Continue System Security Supply Chain Risk Management (SCRM) and Table Top assessments with the OEM. Conduct Wind Tunnel Testing with OEM provided design models. Instrument and configure test aircraft.						
FY 2025 Base Plans: Continue Capabilities Test and Evaluation planning for DT testing; continue Modeling and Simulation and risk reduction activities and required modifications of test facilities. Continue to monitor and review individual OEM verification test plans and reports. Continue System Security Supply Chain Risk Management (SCRM) and Table Top assessments with the OEM. Continue Wind Tunnel Testing with OEM provided design models. Instrument and configure test aircraft. Preparations to begin aeromechanical flight testing upon delivery of aeromechanical test pods.						
FY 2025 OCO Plans: N/A						
FY 2024 to FY 2025 Increase/Decrease Statement: Increase from FY 2024 to FY 2025 due to instrumentation of test aircraft to prepare for flight test beginning in FY 2026.						
Accomplishments/Planned Programs Subtotals		73.079	250.577	209.623	0.000	209.623
C. Other Program Funding Summary (\$ in Millions)						
N/A						

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

Remarks

D. Acquisition Strategy

The NGJ-LB program is designated an ACAT-IB Major Defense Acquisition Program (MDAP), MDAP program number 520. The activity will focus on the Engineering and Manufacturing Development (EMD) phase, to develop and build (4) NGJ-LB test pods (2 aeromechanical and 2 mission systems) for developmental test.

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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 0604282N / NEXT GENERATION JAMMER (NGJ) INC II					Project (Number/Name) 3380 / Next Generation Jammer Inc II				

Product Development (\$ 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	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost To Complete	Total Cost	Target Value of Contract
Primary H/W Dev - EMD	C/CPIF	TBD : TBD	0.000	14.271	Feb 2024	144.095	Feb 2024	106.331	Nov 2024	-		106.331		204.513	469.210	469.210
Primary H/W Dev - BOA	SS/CPIF	TBD : TBD	0.000	0.000		0.000		0.000		-		0.000		188.016	188.016	188.016
Primary H/W Dev - Logistics	Various	Various : Various	0.000	0.000		0.000		0.000		-		0.000		13.171	13.171	13.171
Aircraft Integration	WR	NAWCWD : China Lake, CA	11.359	2.355	Nov 2022	3.450	Nov 2023	5.225	Nov 2024	-		5.225		38.161	60.550	-
Aircraft Integration	SS/CPIF	Boeing : St. Louis, MO	3.595	3.386	Nov 2022	16.998	Nov 2023	11.643	Nov 2024	-		11.643		49.859	85.481	85.481
Software Integration	WR	NAWCWD : Point Mugu, CA	14.296	7.548	Nov 2022	12.030	Nov 2023	11.363	Nov 2024	-		11.363		54.713	99.950	-
Software Integration	SS/CPIF	Boeing : St. Louis, MO	22.539	5.099	Nov 2022	7.871	Nov 2023	8.117	Nov 2024	-		8.117		43.852	87.478	87.478
Software Integration	SS/CPIF	NGC : Bethpage, NY	12.981	3.816	Nov 2022	7.928	Nov 2023	7.928	Nov 2024	-		7.928		27.416	60.069	60.069
Software Integration - Development	Various	Various : Various	0.000	4.460	Nov 2022	1.988	Jun 2024	2.027	Jun 2025	-		2.027		13.387	21.862	-
Systems Engineering	TBD	NSMA : Arlington, VA	17.725	2.677	Dec 2022	18.455	Dec 2023	19.209	Dec 2024	-		19.209		55.291	113.357	-
Systems Engineering	WR	NAWCAD : Patuxent River, MD	68.476	10.505	Nov 2022	13.540	Nov 2023	12.623	Nov 2024	-		12.623		76.772	181.916	-
Systems Engineering	WR	NAWCWD : Point Mugu, CA	16.233	3.629	Nov 2022	2.493	Nov 2023	2.543	Nov 2024	-		2.543		13.572	38.470	-
Systems Engineering	WR	NSWC Crane : Crane, IN	13.130	2.091	Nov 2022	2.950	Nov 2023	3.009	Nov 2024	-		3.009		30.758	51.938	-
Systems Engineering	SS/CPFF	JHU : Laurel, MD	23.232	2.326	Dec 2022	3.303	Dec 2023	3.369	Dec 2024	-		3.369		17.873	50.103	50.103
Systems Engineering	Various	Various : Various	7.523	3.796	Dec 2022	3.243	Dec 2023	3.308	Dec 2024	-		3.308		24.118	41.988	-
Prior Year Prod Dev no longer funded in FYDP	Various	Various : Various	160.045	0.000		0.000		0.000		-		0.000		0.000	160.045	-
Subtotal			371.134	65.959		238.344		196.695		-		196.695		851.472	1,723.604	N/A

Remarks
Funding decreases from FY 2024 to FY 2025 due to material related phasing of funding on the EMD contract for the aeromechanical and mission systems test pods decreasing in FY 2025.

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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 0604282N / NEXT GENERATION JAMMER (NGJ) INC II				Project (Number/Name) 3380 / Next Generation Jammer Inc II					

Support (\$ 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 Svc (Non FFRDC)	Various	Various : Various	15.370	5.056	Dec 2022	3.576	Dec 2023	3.647	Dec 2024	-		3.647	27.479	55.128	55.128
Subtotal			15.370	5.056		3.576		3.647		-		3.647	27.479	55.128	N/A

Remarks
Funding increases from FY 2024 to FY 2025 due to inflation.

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	NAWCAD : Patuxent River, MD	5.172	1.882	Nov 2022	6.503	Nov 2023	7.082	Nov 2024	-		7.082	177.652	198.291	-
Developmental Test & Evaluation (DT&E)	TBD	Boeing : St. Louis, MO	0.000	0.000		1.786	Nov 2023	1.824	Nov 2024	-		1.824	34.381	37.991	37.991
Developmental Test & Evaluation (DT&E)	TBD	Various : Various	1.409	0.000		0.000		0.000		-		0.000	7.000	8.409	8.409
Developmental Test & Evaluation (DT&E)	SS/FFP	FSC : San Diego, CA	0.775	0.132	Nov 2022	0.271	Nov 2023	0.276	Nov 2024	-		0.276	8.156	9.610	9.610
Operational Test & Evaluation (OT&E)	Various	Various : Various	0.000	0.000		0.000		0.000		-		0.000	13.653	13.653	-
Subtotal			7.356	2.014		8.560		9.182		-		9.182	240.842	267.954	N/A

Remarks
Increase from FY 2024 to FY 2025 due to instrumentation of test aircraft to prepare for flight test beginning in FY 2026.

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			
Travel	Various	Various : Various	0.054	0.050	Oct 2022	0.097	Oct 2023	0.099	Oct 2024	-		0.099	0.745	1.045	-
Subtotal			0.054	0.050		0.097		0.099		-		0.099	0.745	1.045	N/A

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

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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			

Remarks
FY 2025 increases due to inflation.

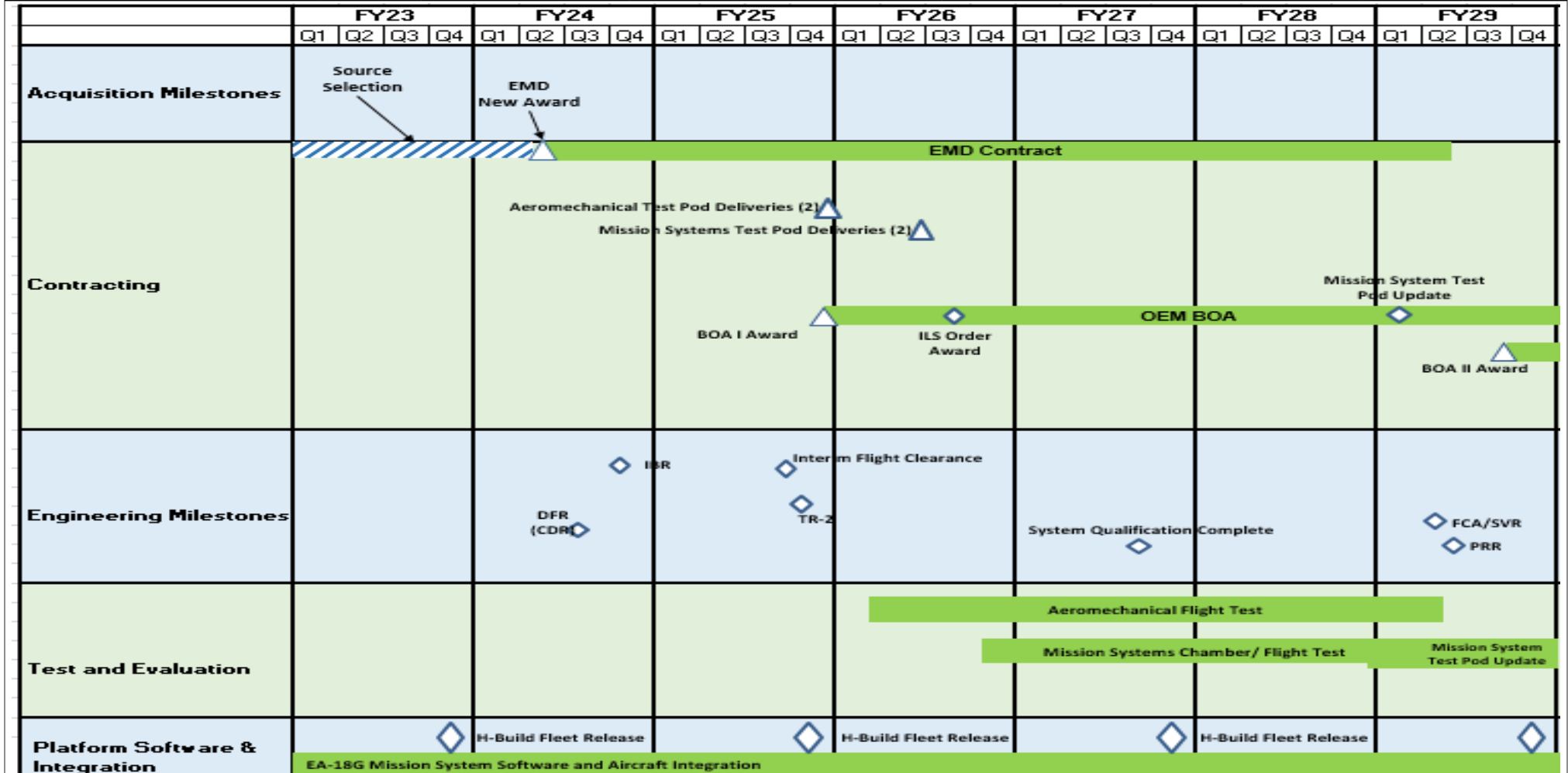
	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	393.914	73.079	250.577	209.623	-	209.623	1,120.538	2,047.731	N/A

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 0604282N / NEXT GENERATION JAMMER (NGJ) INC II	Project (Number/Name) 3380 / Next Generation Jammer Inc II
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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604282N / NEXT GENERATION JAMMER (NGJ) INC II	Project (Number/Name) 3380 / Next Generation Jammer Inc II

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Next Generation Jammer Low Band (Increment II)				
Acquistion Milestones: Source Selection	1	2023	2	2024
Contracting Milestones: Engineering Manufacturing and Development Contract Award	2	2024	2	2024
Contracting Milestones: Engineering Manufacturing and Development Contract	2	2024	2	2029
Contracting Milestones: Aeromechanical Test Pod Deliveries (2)	4	2025	4	2025
Contracting Milestones: Mission Systems Test Pod Deliveries (2)	2	2026	2	2026
Contracting Milestones: Basic Ordering Agreement I Award (OEM)	4	2025	4	2029
Contracting Milestones: Integrated Logistics Support Order award	3	2026	3	2026
Contracting Milestones: Mission System Test Pod Update Order Award	1	2029	1	2029
Contracting Milestones: Basic Ordering Agreement II Award (OEM)	3	2029	4	2029
Engineering Milestones: Design Familiarization Review / Critical Design Review	3	2024	3	2024
Engineering Milestones: Integrated Baseline Review	4	2024	4	2024
Engineering Milestones: Interim Flight Clearance	3	2025	3	2025
Engineering Milestones: Technical Review 2	4	2025	4	2025
Engineering Milestones: System Qualification Complete	3	2027	3	2027
Engineering Milestones: Functional Configuration Audit / System Verification Review	2	2029	2	2029
Engineering Milestones: Production Readiness Review	2	2029	2	2029
Test and Evaluation: Aeromechanical Flight Test	1	2026	2	2029
Test and Evaluation: Mission Systems Chamber/ Flight Test	4	2026	1	2029
Test and Evaluation: Mission System Test Pod Update	4	2028	4	2029
Test and Evaluation: NGJ-LB Platform Software: H-Build Release 1	4	2023	4	2023
Test and Evaluation: NGJ-LB Platform Software: H-Build Release 2	4	2025	4	2025

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Test and Evaluation: NGJ-LB Platform Software: H-Build Release 3	4	2027	4	2027
Test and Evaluation: NGJ-LB Platform Software: H-Build Release 4	4	2029	4	2029
Test and Evaluation: NGJ-LB Platform Software: EA-18G Mission System Software and Aircraft Integration	1	2023	4	2029