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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy I 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 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	328.089	72.937	135.467	250.577	-	250.577	285.195	314.968	324.332	331.808	502.111	2,545.484
3380: <i>Next Generation Jammer Inc II</i>	328.089	72.937	135.467	250.577	-	250.577	285.195	314.968	324.332	331.808	502.111	2,545.484

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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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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B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	146.596	301.737	352.873	-	352.873
Current President's Budget	72.937	135.467	250.577	-	250.577
Total Adjustments	-73.659	-166.270	-102.296	-	-102.296
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-166.270			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-69.433	0.000			
• SBIR/STTR Transfer	-4.226	0.000			
• Program Adjustments	0.000	0.000	-101.980	-	-101.980
• Rate/Misc Adjustments	0.000	0.000	-0.316	-	-0.316

Change Summary Explanation

FY2024 Decrease of \$102.296M from PB23 to PB24 is due to the EMD contract award delay.

Schedule: Updates reflect a new Engineering Manufacturing and Development (EMD) contract award date.

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy										Date: March 2023		
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 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
3380: Next Generation Jammer Inc II	328.089	72.937	135.467	250.577	-	250.577	285.195	314.968	324.332	331.808	502.111	2,545.484
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 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Next Generation Jammer Low Band Primary Hardware Development	0.000	65.656	144.096	0.000	144.096
Articles:	-	-	-	-	-
FY 2023 Plans:					
Award of the NGJ-LB Engineering Manufacturing and Development (EMD) contract focusing on pod (hardware and software) design, development, and support, and development of interim flight clearance in preparation for flight testing. Conduct the Design Familiarization Review (DFR)/Critical Design Review (CDR). Continue development of peculiar support equipment, provide data to support the EA-18G H build software configuration set and training materials in cooperation with the EA-18G aircraft Original Equipment Manufacturer (OEM).					
FY 2024 Base Plans:					
Continue execution of the NGJ-LB EMD contract focusing on pod (hardware and software) design, development, and support finalizing interim flight clearance in support of Technical Review-2 (TR-2). Conduct the Integrated Baseline Review (IBR), continue building and deliver the two (2) aeromechanical test pods, and continue building the two (2) mission systems test pods. Continue development of peculiar support equipment, provide data to support the EA-18G H build software configuration set and training materials in cooperation with the EA-18G aircraft OEM.					
FY 2024 OCO Plans:					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
N/A					
<i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> Funding increases from FY23 to FY24 as EMD efforts ramp up with the build of 2 aeromechanical and 2 mission systems test pods.					
<i>Title:</i> Next Generation Jammer Low Band Systems Engineering	31.819	25.024	43.984	0.000	43.984
<i>Articles:</i>	-	-	-	-	-
<i>FY 2023 Plans:</i> NGJ-LB EMD Systems engineering efforts, which will support design activities required to demonstrate DFR/CDR compliance, system performance specification verification, Software Integration Lab testing, platform software integration at the government and contractor facilities, and prepare for Aeromechanical Flight tests and Mission Systems chamber testing. Provide Systems Engineering support to the integration and test activities.					
<i>FY 2024 Base Plans:</i> 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.					
<i>FY 2024 OCO Plans:</i> N/A					
<i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> Funding increases from FY23 to FY24 as NSMA related system engineering efforts increase.					
<i>Title:</i> Next Generation Jammer Low Band Support & Management Services	3.440	4.455	3.673	0.000	3.673
<i>Articles:</i>	-	-	-	-	-
<i>FY 2023 Plans:</i> Provide support and management services associated with the NGJ-LB Program.					
<i>FY 2024 Base Plans:</i> Continue support and management services associated with the NGJ-LB Program.					
<i>FY 2024 OCO Plans:</i>					

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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	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)					
N/A					
FY 2023 to FY 2024 Increase/Decrease Statement: Funding decreases from FY23 to FY24 due to the completion of EMD source selection in FY23.					
Title: Next Generation Jammer Low Band Integration					
Articles:					
FY 2023 Plans: Continue software development and aircraft integration efforts. Continue Software Anomaly Report analysis, implementation and test. Continue to support development of advance techniques, Jammer Training Mode and Receive-Only capabilities. Begin the development of the training materials in cooperation with the NGJ-LB pod prime contractor for EA-18G operators and maintainers and continue Platform Integration activities. Conduct mitigation activities to reduce risk of RF damage to platform. Continue non-recurring engineering in support of the NGJ-LB engineering change proposal.					
FY 2024 Base 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 RF damage to platform. Conduct studies and analysis in support of NGJ-LB Interim Flight Clearance.					
FY 2024 OCO Plans: N/A					
FY 2023 to FY 2024 Increase/Decrease Statement: Funding increases from FY23 to FY24 as software and aircraft integration activities increase in alignment with continued execution of the EMD contract.					
Title: Next Generation Jammer Low Band Test & Evaluation					
Articles:					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<p>FY 2023 Plans: Continue Capabilities Test and Evaluation Planning for integrated Developmental Testing (DT)/ Operational Testing (OT); 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. Initiate System Security Supply Chain Risk Management (SCRM) and Table Top assessments with the OEM.</p> <p>FY 2024 Base 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. Upon delivery of aeromechanical test pods, begin test aircraft integration and ground testing events.</p> <p>FY 2024 OCO Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding increases from FY23 to FY24 as (2) Aeromechanical Test Pods deliver in Q4 FY24 and aeromechanical development testing begins.</p>					
<p>Title: Next Generation Jammer Low Band Below Threshold Reprogramming</p> <p align="right">Articles:</p>	6.600 -	0.000 -	0.000 -	0.000 -	0.000 -
<p>FY 2023 Plans: N/A</p> <p>FY 2024 Base Plans: N/A</p> <p>FY 2024 OCO Plans: N/A</p>					
Accomplishments/Planned Programs Subtotals	72.937	135.467	250.577	0.000	250.577

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

Line Item	FY 2022	FY 2023	FY 2024	FY 2024	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Cost To	Total Cost
			Base	OCO	Total					Complete	
• APN/0591: Next Generation Jammer (NGJ)	255.393	463.146	426.396	-	426.396	455.001	448.263	480.017	440.755	5,187.134	8,319.840

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 and deliver (8) operational prototypes for an early fleet introduction.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy **Date:** March 2023

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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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Primary H/W Dev - EMD	C/CPIF	TBD : TBD	0.000	0.000		65.656	Jun 2023	144.095	Nov 2023	-		144.095	501.964	711.715	711.715
Primary H/W Dev - BOA	SS/CPIF	TBD : TBD	0.000	0.000		0.000		0.000		-		0.000	479.801	479.801	479.801
Primary H/W Dev - Logistics	Various	Various : Various	0.000	0.000		0.000		0.000		-		0.000	19.377	19.377	19.377
Aircraft Integration	WR	NAWCWD : China Lake, CA	8.189	3.211	Nov 2021	3.275	Nov 2022	3.450	Nov 2023	-		3.450	43.386	61.511	-
Aircraft Integration	SS/CPIF	Boeing : St. Louis, MO	0.000	3.595	Nov 2021	14.094	Nov 2022	16.998	Nov 2023	-		16.998	9.141	43.828	43.828
Software Integration	WR	NAWCWD : Point Mugu, CA	6.545	7.752	Nov 2021	8.907	Nov 2022	12.030	Nov 2023	-		12.030	62.493	97.727	-
Software Integration	SS/CPIF	Boeing : St. Louis, MO	11.933	10.606	Nov 2021	7.578	Nov 2022	7.871	Nov 2023	-		7.871	51.969	89.957	87.478
Software Integration	SS/CPIF	NGC : Bethpage, NY	9.067	3.914	Nov 2021	3.993	Nov 2022	7.928	Nov 2023	-		7.928	37.711	62.613	60.085
Software Integration - Development	Various	Various : Various	0.000	0.000		0.000		1.988	Jun 2024	-		1.988	15.072	17.060	-
Systems Engineering	TBD	NSMA : Arlington, VA	15.126	2.674	Jun 2022	3.836	Dec 2022	18.455	Dec 2023	-		18.455	94.182	134.273	-
Systems Engineering	WR	NAWCAD : Patuxent River, MD	56.273	12.635	Nov 2021	12.894	Nov 2022	13.540	Nov 2023	-		13.540	85.923	181.265	-
Systems Engineering	WR	NAWCWD : Point Mugu, CA	13.746	2.488	Nov 2021	3.629	Nov 2022	2.493	Nov 2023	-		2.493	14.116	36.472	-
Systems Engineering	WR	NSWC Crane : Crane, IN	10.544	2.586	Nov 2021	2.091	Nov 2022	2.950	Nov 2023	-		2.950	28.777	46.948	-
Systems Engineering	SS/CPFF	JHU : Laurel, MD	17.106	6.126	Dec 2021	2.325	Dec 2022	3.303	Dec 2023	-		3.303	20.180	49.040	49.040
Systems Engineering	Various	Various : Various	2.164	5.309	Dec 2021	0.249	Dec 2022	3.243	Dec 2023	-		3.243	24.595	35.560	-
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	-
FY22 Below Threshold Reprogramming	TBD	TBD : TBD	0.000	6.600	Sep 2023	0.000		0.000		-		0.000	0.000	6.600	-
Subtotal			310.738	67.496		128.527		238.344		-		238.344	1,488.687	2,233.792	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy **Date:** March 2023

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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
Funding increases from FY23 to FY24 as EMD efforts ramp up with the build of 2 aeromechanical and 2 mission systems test pods, as well as NSMA related activities.

Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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	11.944	3.433	Dec 2021	4.360	Dec 2022	3.576	Dec 2023	-		3.576	27.116	50.429	50.429
Subtotal			11.944	3.433		4.360		3.576		-		3.576	27.116	50.429	N/A

Remarks
Funding decreases from FY23 to FY24 due to completion of EMD source selection in FY23.

Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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	3.305	1.872	Nov 2021	2.353	Nov 2022	6.503	Nov 2023	-		6.503	189.333	203.366	-
Developmental Test & Evaluation (DT&E)	TBD	Boeing : St. Louis, MO	0.000	0.000		0.000		1.786	Nov 2023	-		1.786	34.381	36.167	36.167
Developmental Test & Evaluation (DT&E)	TBD	Various : Various	1.409	0.000		0.000		0.000		-		0.000	0.000	1.409	1.409
Developmental Test & Evaluation (DT&E)	SS/FFP	FSC : San Diego, CA	0.646	0.129	Nov 2021	0.132	Nov 2022	0.271	Nov 2023	-		0.271	9.035	10.213	10.212
Operational Test & Evaluation (OT&E)	Various	Various : Various	0.000	0.000		0.000		0.000		-		0.000	13.653	13.653	-
Subtotal			5.360	2.001		2.485		8.560		-		8.560	246.402	264.808	N/A

Remarks
Funding increases from FY23 to FY24 as aeromechanical developmental testing begins.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy **Date:** March 2023

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Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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	0.047	0.007	Oct 2021	0.095	Oct 2022	0.097	Oct 2023	-		0.097	0.731	0.977	-
Subtotal			0.047	0.007		0.095		0.097		-		0.097	0.731	0.977	N/A

Remarks
FY 2024 increases due to inflation.

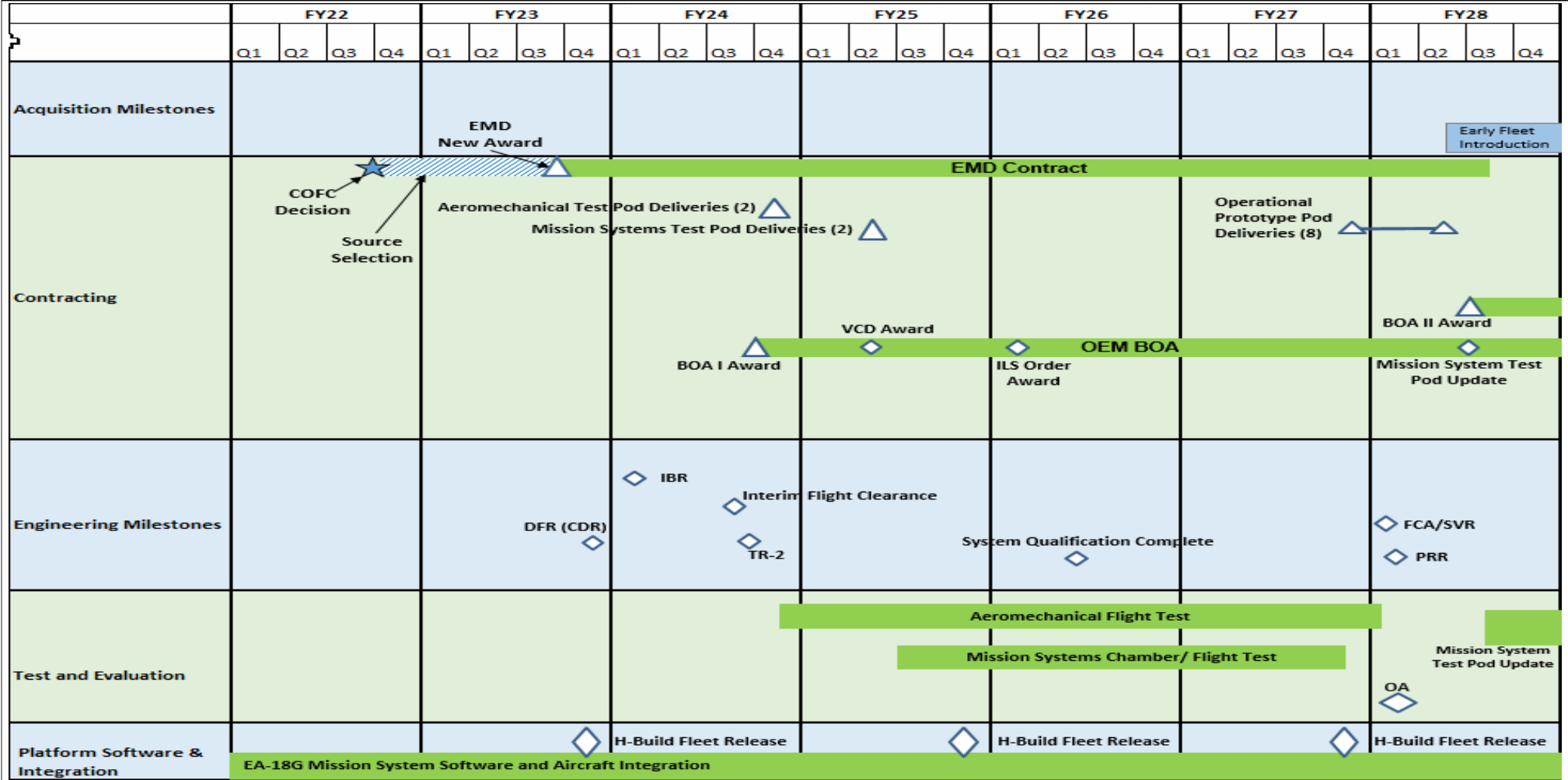
	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	328.089	72.937	135.467	250.577	-	250.577	1,762.936	2,550.006	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy **Date:** March 2023

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Next Generation Jammer Low Band (Increment II)</i>				
Acquistion Milestones: Court of Federal Claims Decision	3	2022	3	2022
Acquistion Milestones: Source Selection	3	2022	3	2023
Contracting Milestones: Engineering Manufacturing and Development Contract Award	3	2023	3	2023
Contracting Milestones: Engineering Manufacturing and Development Contract	3	2023	3	2028
Contracting Milestones: Aeromechanical Test Pod Deliveries (2)	4	2024	4	2024
Contracting Milestones: Mission Systems Test Pod Deliveries (2)	2	2025	2	2025
Contracting Milestones: Basic Ordering Agreement I Award (OEM)	4	2024	4	2028
Contracting Milestones: Verification Correction Deficiencies Award	2	2025	2	2025
Contracting Milestones: Integrated Logistics Support Order award	1	2026	1	2026
Contracting Milestones: Prototype Pod Deliveries (8)	4	2027	2	2028
Contracting Milestones: Mission System Test Pod Update Order Award	3	2028	3	2028
Contracting Milestones: Basic Ordering Agreement II Award (OEM)	3	2028	4	2028
Engineering Milestones: Design Familiarization Review / Critical Design Review	4	2023	4	2023
Engineering Milestones: Integrated Baseline Review	1	2024	1	2024
Engineering Milestones: Interim Flight Clearance	3	2024	3	2024
Engineering Milestones: Technical Review 2	3	2024	3	2024
Engineering Milestones: System Qualification Complete	2	2026	2	2026
Engineering Milestones: Functional Configuration Audit / System Verification Review	1	2028	1	2028
Engineering Milestones: Production Readiness Review	1	2028	1	2028
Test and Evaluation: Aeromechanical Flight Test	4	2024	1	2028
Test and Evaluation: Mission Systems Chamber/ Flight Test	3	2025	4	2027

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604282N / <i>NEXT GENERATION JAMMER (NGJ) INC II</i>	Project (Number/Name) 3380 / <i>Next Generation Jammer Inc II</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Test and Evaluation: Operational Assessment	1	2028	1	2028
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
Test and Evaluation: NGJ-LB Platform Software: H-Build Release 3	4	2027	4	2027
Test and Evaluation: NGJ-LB Platform Software: EA-18G Mission System Software and Aircraft Integration	1	2022	4	2028