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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604274N / Next Generation Jammer (NGJ)							
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	1,814.232	584.538	449.429	524.261	-	524.261	434.223	178.364	0.000	0.000	0.000	3,985.047
0557: Next Generation Jammer	1,814.232	584.538	449.429	524.261	-	524.261	434.223	178.364	0.000	0.000	0.000	3,985.047
Program MDAP/MAIS Code: Project MDAP/MAIS Code(s): P445												
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 in 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 0604274N) supports the AN/ALQ-249 Next Generation Jammer - Mid Band (NGJ-MB) (formerly known as Next Generation Jammer Increment 1) program. NGJ-MB will address AEA capability and sufficiency gaps against enemy threats operating in the middle frequency bands of the electromagnetic spectrum. NGJ-MB 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. The NGJ-MB system will be integrated on the EA-18G tactical aircraft and will augment and then replace the legacy AN/ALQ-99 Tactical Jamming System.												
B. Program Change Summary (\$ in Millions)				FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total				
Previous President's Budget				632.936	459.529	568.662	-	568.662				
Current President's Budget				584.538	449.429	524.261	-	524.261				
Total Adjustments				-48.398	-10.100	-44.401	-	-44.401				
• Congressional General Reductions				-	-							
• Congressional Directed Reductions				-	-10.100							
• Congressional Rescissions				-	-							
• Congressional Adds				-	-							
• Congressional Directed Transfers				-	-							
• Reprogrammings				-10.000	0.000							
• SBIR/STTR Transfer				-19.390	0.000							
• Program Adjustments				0.000	0.000	-51.371	-	-51.371				

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Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
1319: Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)		PE 0604274N / Next Generation Jammer (NGJ)			
• Rate/Misc Adjustments	-0.008	0.000	6.970	-	6.970
• Congressional Directed Reductions Adjustments	-19.000	-	-	-	-
<u>Change Summary Explanation</u>					
The FY 2020 funding request was reduced by \$49.155 million to account for the availability of prior year execution balances.					
Technical: Not applicable.					
Schedule: APN funding was re-phased due to required design modifications of the NGJ-MB structure. As a result, the total number of LRIP lots were reduced from 3 to 2 and production lead time was updated to 18 months for all LRIP and FRP lots. The scope, effort, and timing of IT-B2 has been redefined; as a result, the start of IT-B2 has moved from 3QFY2019 to 2QFY2020 with no impact to overall program schedule. MS FRR moved from 3QFY2019 to 2QFY2020 to align with the start of IT-B2.					

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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 0604274N / Next Generation Jammer (NGJ)				Project (Number/Name) 0557 / Next Generation Jammer			
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
0557: Next Generation Jammer	1,814.232	584.538	449.429	524.261	-	524.261	434.223	178.364	0.000	0.000	0.000	3,985.047
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		
Project MDAP/MAIS Code: P445												
A. Mission Description and Budget Item Justification												
This Program Element (PE 0604274N) supports the NGJ-MB program. NGJ-MB will address AEA capability and sufficiency gaps against enemy threats operating in the middle frequency bands of the electromagnetic spectrum. NGJ-MB will provide the ability to effective engage enemy threats from increased stand-off distances, employ increased capacity (number of jamming assignments) against enemy targets, and support agile employment by operators. The NGJ-MB system will be integrated on the EA-18G tactical aircraft and will augment and then replace the legacy AN/ALQ-99 Tactical Jamming System Mid-Band pods.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)												
								FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Title: Next Generation Jammer Mid-Band Primary Hardware Development Articles: FY 2019 Plans: Delivery of initial EDM pods to support ground chamber testing and mission systems developmental flight testing. FY 2020 Base Plans: Deliver aeromechanical test shapes (Pods) to support developmental flight test and envelope expansion on the EA-18G. Continue delivery EDM pods to support ground chamber testing, mission systems developmental flight testing and capabilities based test and evaluation to support Milestone C. Contract award for 7 System Demonstration Test Article Pod shipsets (2 pods per shipset) in 1st Qtr. FY 2020 which will be used for final developmental test efforts, tactics development, and operational test. FY 2020 OCO Plans: N/A FY 2019 to FY 2020 Increase/Decrease Statement: Increase of Next Generation Jammer Mid-Band Primary Hardware Development from FY 2019 to FY 2020 is due to the funding of the seven System Demonstration Test Article shipsets and associated support.								371.603	201.876	285.906	0.000	285.906
								-	-	7	-	7
Title: Next Generation Jammer Mid-Band Systems Engineering								59.471	61.604	58.541	0.000	58.541
Articles:								-	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
<p>FY 2019 Plans: Perform Systems Engineering efforts, which will support the Mission Systems Test Readiness Review 3rd Qtr. FY 2019. Systems Engineering efforts will also be focused on the Production Readiness Review in 3rd Qtr. FY 2020 and the System Verification Review in 4th Qtr. FY 2020. System engineering efforts will continue to support Systems Integration Lab testing at government and contractor facilities and developmental ground and flight test activities.</p> <p>FY 2020 Base Plans: Perform Systems Engineering efforts, which will support the Aeromechanical Flight Readiness Review 2nd Qtr. FY2020, the Production Readiness Review 3rd Qtr. FY 2020 and the System Verification Review 4th Qtr. FY 2020. Perform Systems Engineering efforts to support the first Aeromechanical Pod flight in 2nd Qtr. FY2020 and the first EDM Pod radiating flight in 3rd Qtr. FY2020. System engineering efforts will continue to support Systems Integration Lab testing and platform software integration at government and contractor facilities. Review system performance data and analysis from ground and flight test activities to support program Milestone C decision in 4th Qtr. FY 2020.</p> <p>FY 2020 OCO Plans: N/A</p> <p>FY 2019 to FY 2020 Increase/Decrease Statement: Decrease of Next Generation Jammer Mid-Band Systems Engineering from FY 2019 to FY 2020 is due to less funding required for Trainers and reimbursable efforts.</p>						
<p>Title: Next Generation Jammer Mid-Band Aircraft Integration</p> <p>Articles:</p> <p>FY 2019 Plans: Completion of SCS software H16 Build 2 integration activities, Build Readiness Review (BRR) for H16 Build 3 and subsequent integration, and follow on software support to meet Initial Operational Capability (IOC). Continued SIL testing and NGJ-MB A-kit installs into the developmental test and evaluation aircraft. Commence delivery and installation of A-kits to Operational Test and Evaluation aircraft.</p> <p>FY 2020 Base Plans: Completion of SCS software H16 Build 3 integration activities, initial H16 Verification and Validation activities, and subsequent integration, and follow on software support to meet Initial Operational Capability (IOC). Continued SIL testing and NGJ-MB A-kit installs into the developmental test and evaluation aircraft. Commence</p>		91.407 -	101.354 -	66.720 -	0.000 -	66.720 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
delivery and installation of A-kits to Operational Test and Evaluation aircraft. Continued NGJ-MB Crew Vehicle Interface (CVI) improvements for H18/H20 to include Design Advisory Group (DAG) meetings. FY 2020 OCO Plans: N/A FY 2019 to FY 2020 Increase/Decrease Statement: Decrease of Next Generation Jammer Mid-Band Aircraft Integration from FY 2019 to FY 2020 is due to less funding required as Integration hardware and software completes the majority of its development.						
Title: Next Generation Jammer Mid-Band Test and Evaluation Articles: FY 2019 Plans: Complete NGJ-MB Airworthiness and Mission Systems Test Planning. Perform loads pod calibration. Modify and instrument a F/A-18E/F to support store loads testing. Modify F/A-18E/F aircraft to support Flying Qualities, Stability and Control, Performance, and Carrier Suitability flight testing. Instrument aircraft to support captive carriage and jettison/adjacent stores flight testing. Execute initial ground testing to include Electromagnetic Environmental Effects, frequency and spatial coverage, beam stabilization and EIRP in the Air Combat Environment Test and Evaluation (ACETEF) Facility. Execute initial ground testing to include Basic Jamming Technique characterization in the High-Power Electronic Attack Technique Radiation (HEATR) Facility. Execute initial ground testing to include Reliability Growth Testing in the Electronic Attack Test and Evaluation System (EATES) Facility. FY 2020 Base Plans: Begin NGJ-MB Airworthiness and Mission Systems Test Execution. Perform loads pod calibration, cantilever Ground Vibration Test (GVT) and EA-18G Platform GVT. Finalize modification and instrumentation of F/A-18E/F and begin NGJ store loads testing. Finalize modification and instrumentation of F/A-18E/F aircraft and begin Flying Qualities, Stability and Control, and Performance flight testing. Finalize instrumentation of F/A-18 aircraft and begin captive carriage and jettison/adjacent stores flight testing. Finalize modification and instrumentation of EA-18G NGJ and H16 mission systems aircraft to support NGJ-MB test program. Execute ground testing to include Electromagnetic Environmental Effects, frequency and spatial coverage, beam stabilization and EIRP, as well as initial EA-18G installed mission system testing in the Air Combat Environment Test and Evaluation (ACETEF) Facility. Execute ground testing to include Basic and Advanced Jamming Technique characterization in the High-Power Electronic Attack Technique Radiation (HEATR) Facility. Execute ground testing to include Reliability Growth Testing in the Electronic Attack Test and Evaluation System (EATES) Facility. Execute ground		56.183 -	78.415 -	106.792 -	0.000 -	106.792 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)											
		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total					
testing to include Antenna Pattern Measurements at the Facility for Antenna and RCS Measurement (FARM). Execute initial pre-MS-C Mission Systems flight testing with VX-23 at Atlantic Test Range (ATR) and VX-31 at Electronic Combat Range (ECR). Analyze and Evaluate ground and flight test data to support program MS-C Decision. FY 2020 OCO Plans: N/A FY 2019 to FY 2020 Increase/Decrease Statement: Increase of Next Generation Jammer Mid-Band Test and Evaluation from FY 2019 to FY 2020 is due to the funding of increased ground and flight test across multiple test phases.											
Title: Next Generation Jammer Mid-Band Support & Management Services FY 2019 Plans: Provide Support and Management Services associated with the NGJ-MB Program. FY 2020 Base Plans: Provide Support and Management Services associated with the NGJ-MB Program. FY 2020 OCO Plans: N/A FY 2019 to FY 2020 Increase/Decrease Statement: Increase of Next Generation Jammer Mid-Band Support from FY 2019 to FY 2020 is due to escalation of efforts.		Articles: 5.874 -	6.180 -	6.302 -	0.000 -	6.302 -					
Accomplishments/Planned Programs Subtotals		584.538	449.429	524.261	0.000	524.261					
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/0591: Next Generation Jammer	0.000	0.000	6.223	-	6.223	144.670	300.114	468.829	534.055	3,376.955	4,830.846
Remarks											

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<p><u>D. Acquisition Strategy</u></p> <p>The NGJ-MB program is designated an Acquisition Category 1C Major Defense Acquisition Program (MDAP), MDAP program number 445. The activity will focus on Engineering and Manufacturing Development (EMD) phase completing the design of the pod and building fifteen (15) EDM pods for developmental test.</p> <p><u>E. Performance Metrics</u></p> <p>First flight of an aeromechanical developmental test shape is scheduled for 2nd Qtr. FY 2020. First radiating flight of an EDM Pod is scheduled for 3rd Qtr. FY 2020.</p>		

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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 0604274N / Next Generation Jammer (NGJ)				Project (Number/Name) 0557 / Next Generation Jammer					
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 Hardware Development - Engineering and Manufacturing Development	C/CPIF	Raytheon : El Segundo, CA	586.519	363.798	Oct 2017	188.256	Dec 2018	272.805	Oct 2019	-		272.805	311.800	1,723.178	1,723.178
Primary Hardware Development - AECR	C/CPIF	Raytheon : El Segundo, CA	0.000	0.000	Jun 2018	5.500	Dec 2018	5.500	Dec 2019	-		5.500	0.000	11.000	11.000
Primary Hardware Development - AECR	Various	Various : Various	0.000	2.805	Jun 2018	0.920	Dec 2018	2.000	Dec 2019	-		2.000	0.000	5.725	-
Primary Hardware Development - TRIMM	C/CPIF	Raytheon : El Segundo, CA	0.000	5.000	Jun 2018	7.200	Dec 2018	5.600	Dec 2019	-		5.600	2.200	20.000	20.000
Aircraft Integration - EMD	C/CPIF	Boeing : St. Louis, MO	26.993	10.000	Dec 2017	30.455	Dec 2018	34.419	Dec 2019	-		34.419	30.824	132.691	132.691
Software/Aircraft Integration	WR	NAWCWD : China Lake, CA	31.351	15.254	Nov 2017	19.811	Nov 2018	8.514	Nov 2019	-		8.514	15.542	90.472	-
Software Integration - SOR	C/CPIF	Boeing : St. Louis, MO	26.829	0.000	Oct 2017	1.516	Oct 2018	1.285	Oct 2019	-		1.285	0.187	29.817	29.817
Software Integration - Blk Update	WR	NAWCWD : Pt. Mugu, CA	43.763	20.436	Nov 2017	12.847	Nov 2018	10.759	Nov 2019	-		10.759	19.932	107.737	-
Software Integration H-16	C/CPIF	Boeing : St Louis, MO	31.024	33.614	Oct 2017	17.000	Oct 2018	3.800	Oct 2019	-		3.800	2.170	87.608	87.608
Software Integration H-16	SS/FFP	Northrup Grumman : Bethpage, NY	18.626	12.103	Dec 2017	15.724	Dec 2018	7.943	Dec 2019	-		7.943	8.380	62.776	62.776
Software Integration	WR	NAWCWD : China Lake	1.860	0.000	Nov 2017	4.000	Nov 2018	0.000		-		0.000	0.000	5.860	-
Systems Engineering - Trainer	Various	TBD : TBD	0.000	0.000	Nov 2017	3.194	Nov 2018	1.955	Nov 2019	-		1.955	1.329	6.478	6.478
Systems Engineering	WR	NAWCAD : Patuxent River, MD	120.294	22.261	Nov 2017	26.848	Nov 2018	24.755	Nov 2019	-		24.755	12.223	206.381	-
Systems Engineering	WR	NAWCWD : Pt. Mugu, CA	57.374	13.665	Nov 2017	9.121	Nov 2018	9.303	Nov 2019	-		9.303	11.811	101.274	-
Systems Engineering	WR	NSWC Crane : Crane, IN	36.395	7.680	Nov 2017	9.556	Nov 2018	8.462	Nov 2019	-		8.462	1.860	63.953	-

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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
Systems Engineering	WR	NSWC Dahlgren : Dahlgren, VA	4.253	0.145	Nov 2017	0.148	Nov 2018	0.150	Nov 2019	-		0.150	0.310	5.006	-
Systems Engineering	SS/CPFF	Johns Hopkins University Applied Physics Lab : Laurel, MD	43.900	9.460	Feb 2018	9.649	Feb 2019	9.842	Feb 2020	-		9.842	12.044	84.895	84.895
Systems Engineering	WR	Naval Research Laboratory : Washington, DC	5.268	0.420	Nov 2017	0.428	Nov 2018	0.437	Nov 2019	-		0.437	0.441	6.994	-
Systems Engineering	Various	Various : Various	10.369	1.273	Nov 2017	0.262	Nov 2018	0.267	Nov 2019	-		0.267	0.550	12.721	-
Systems Engineering	SS/FFP	NSMA : Arlington, VA	4.183	4.567	Feb 2018	2.400	Feb 2019	3.370	Feb 2020	-		3.370	4.370	18.890	18.890
Prior Year Prod Dev no longer funded in FYDP	Various	Various : Various	671.172	0.000		0.000		0.000		-		0.000	0.000	671.172	-
Subtotal			1,720.173	522.481		364.835		411.166		-		411.166	435.973	3,454.628	N/A
Remarks															
Funding increase from FY 2019 to FY 2020 is due to the funding of the seven System Demonstration Test Articles and associated support.															
Support (\$ 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
Eng & Tech Svc (Non FFRDC)	Various	Various : Various	31.149	5.684	Dec 2017	5.988	Dec 2018	6.108	Dec 2019	-		6.108	6.230	55.159	55.159
Prior Year Support no longer funded in FYDP	Various	Various : Various	5.382	0.000		0.000		0.000		-		0.000	0.000	5.382	-
Subtotal			36.531	5.684		5.988		6.108		-		6.108	6.230	60.541	N/A

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Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604274N / Next Generation Jammer (NGJ)				Project (Number/Name) 0557 / Next Generation Jammer					
Test and Evaluation (\$ 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
Development T & E	WR	NAWCAD : Patuxent River, MD	36.798	44.220	Nov 2017	54.670	Nov 2018	74.862	Nov 2019	-		74.862	118.434	328.984	-
Development T & E	Various	Boeing : St Louis, MO	4.500	6.612	Oct 2017	15.657	Oct 2018	17.371	Oct 2019	-		17.371	20.115	64.255	64.255
Development T & E	Various	Boeing : St Louis MO	0.000	3.750	Dec 2017	4.875	Dec 2018	7.725	Dec 2019	-		7.725	12.304	28.654	28.654
Development T & E	Various	DynCorp : Not Specified	0.000	0.000		1.978	Jan 2019	3.492	Dec 2019	-		3.492	4.541	10.011	10.011
Test OT	Various	Various : Various	0.730	1.601	Mar 2018	1.234	Mar 2019	3.343	Mar 2020	-		3.343	14.597	21.505	-
Prior year T&E no longer funded in the FYDP	Various	Various : Various	14.525	0.000		0.000		0.000		-		0.000	0.000	14.525	-
Subtotal			56.553	56.183		78.414		106.793		-		106.793	169.991	467.934	N/A
Remarks															
Funding increases from FY 2019 to FY 2020 due to the funding of increased ground and flight test across multiple test phases.															
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
Travel	WR	Various : Various	0.968	0.190	Oct 2017	0.192	Oct 2018	0.194	Oct 2019	-		0.194	0.393	1.937	-
Prior years Mgmt Svcs no longer funded in the FYDP	WR	Various : Various	0.007	0.000		0.000		0.000		-		0.000	0.000	0.007	-
Subtotal			0.975	0.190		0.192		0.194		-		0.194	0.393	1.944	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
Project Cost Totals			1,814.232	584.538		449.429		524.261		-		524.261	612.587	3,985.047	N/A
Remarks															

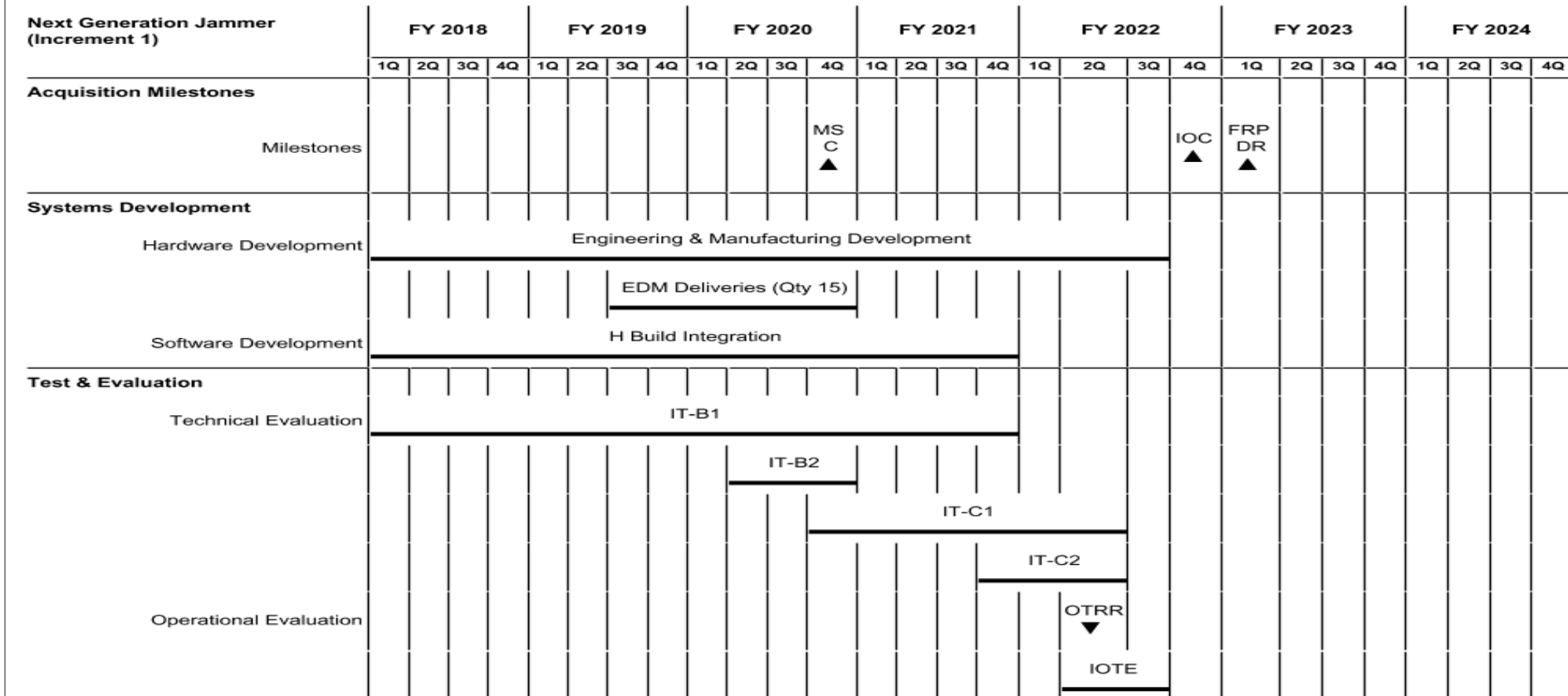
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PE 0604274N: *Next Generation Jammer (NGJ)*
Navy

R-1 Line #116

R-1 Program Element (Number/Name)
PE 0604274N / *Next Generation Jammer (NGJ)*

Project (Number/Name)
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PE 0604274N: *Next Generation Jammer (NGJ)*
Navy

R-1 Line #116

R-1 Program Element (Number/Name)
PE 0604274N / *Next Generation Jammer (NGJ)*

Project (Number/Name)	0557 / Next Generation Jammer
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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Navy			Date: March 2019
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604274N / <i>Next Generation Jammer</i> (NGJ)	Project (Number/Name) 0557 / <i>Next Generation Jammer</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Next Generation Jammer (Increment 1)</i>				
Acquisition Milestones: Milestones: Milestone C	4	2020	4	2020
Acquisition Milestones: Milestones: Initial Operational Capability	4	2022	4	2022
Acquisition Milestones: Milestones: Full Rate Production Decision Review	1	2023	1	2023
Systems Development: Hardware Development: Engineering & Manufacturing Development	1	2018	3	2022
Systems Development: Hardware Development: Engineering Development Model Deliveries	3	2019	4	2020
Systems Development: Software Development: H Build Integration	1	2018	4	2021
Test & Evaluation: Technical Evaluation: Aeromechanical Testing (IT-B1)	1	2018	4	2021
Test & Evaluation: Technical Evaluation: Mission Systems Testing (IT-B2)	2	2020	4	2020
Test & Evaluation: Technical Evaluation: Mission Systems Testing (IT-C1)	4	2020	2	2022
Test & Evaluation: Technical Evaluation: Aeromechanical Testing (IT-C2)	4	2021	2	2022
Test & Evaluation: Operational Evaluation: Operational Test Readiness Review	2	2022	2	2022
Test & Evaluation: Operational Evaluation: Initial Operational Test & Evaluation	2	2022	3	2022
<i>Next Generation Jammer (Increment 1) (cont)</i>				
Engineering Milestones: Reviews: MS Test Readiness Review	3	2019	3	2019
Engineering Milestones: Reviews: AERO Flight Readiness Review	2	2020	2	2020
Engineering Milestones: Reviews: MS Flight Readiness Review	2	2020	2	2020
Engineering Milestones: Reviews: Production Readiness Review	3	2020	3	2020
Engineering Milestones: Reviews: System Verification Review	4	2020	4	2020
Production Milestones: Contract Awards: System Demonstration Test Article RD TEN Contract Award	1	2020	1	2020

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Navy			Date: March 2019		
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0604274N / Next Generation Jammer (NGJ)		Project (Number/Name) 0557 / Next Generation Jammer	
		Start		End	
Events by Sub Project		Quarter	Year	Quarter	Year
Production Milestones: Contract Awards: Low Rate Initial Production 1 APN-5 Contract Award		2	2021	2	2021
Production Milestones: Contract Awards: Low Rate Initial Production 2 APN-5 Contract Award		2	2022	2	2022
Production Milestones: Contract Awards: Full Rate Production 1 APN-5 Contract Award		2	2023	2	2023
Production Milestones: Contract Awards: Full Rate Production 2 APN-5 Contract Award		2	2024	2	2024
Deliveries: System Demonstration Test Article RDTEN Deliveries		2	2021	1	2022
Deliveries: LRIP 1 Deliveries		4	2022	4	2022
Deliveries: LRIP 2 Deliveries		4	2023	3	2024
Deliveries: FRP 1 Deliveries		4	2024	4	2024