Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Navy	Date: April 2022
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0604269N *I EA-18 Squadrons*

COST ($ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	2,383.882	104.003	59.674	116.589	-	116.589	100.765	87.205	89.281	82.802	67.024	3,091.225
3063: *EA-18G Development*	2,383.882	104.003	59.674	116.589	-	116.589	100.765	87.205	89.281	82.802	67.024	3,091.225

Program MDAP/MAIS Code:
Project MDAP/MAIS Code(s): 378

A. Mission Description and Budget Item Justification

The EA-18G Growler is the primary Airborne Electronic Attack (AEA) platform supporting the Joint Force and the sole tactical AEA aircraft in the DoD inventory. The Growler is an asymmetric force multiplier that increases the survivability and lethality of the Joint Force, enabling all-domain superiority for the Electromagnetic Spectrum (EMS). The centrality of EMS dominance to the CNO's Maritime Strategy further necessitates EA-18G modernization as a strategic pursuit to secure EMS superiority for the Navy's Carrier Strike and Joint Expeditionary operations. Due to the rapid advancements of the adversary's capabilities, the EA-18G will be called upon in future engagements to operate at increased ranges from the threat which far exceed the current capability to effectively deliver kinetic and non-kinetic effects. The Growler Block II is a foundational spiral upgrade that will implement the incremental and innovative capability improvements required for Naval Aviation to regain and sustain an advantage in the EMS until the EA-18G replacement.

The onboard sensors of the EA-18G, namely the ALQ-218, require improved sensitivity and processing to detect, identify, and locate advanced complex threats at longer ranges. The ALQ-218 Airborne Electronic Attack Systems Enhancement (ASE) is a combination hardware/software upgrade that enables the transition to Growler Block II. An Electronic Attack Unit (EAU) upgrade, coupled with the Reactive Electronic Attack Measures (REAM) capability greatly enhances the EA-18G's ability to autonomously process and respond to unknown signals in an extremely dense EMS environment. Capabilities of the EA-18G weapon system and ancillary equipment can be upgraded to accommodate and incorporate new or enhanced weapons as well as advances in technology to respond effectively to emerging and future threats. EA-18G "Flight Plan" spiral capability development is critical to the baseline of the EA-18G next generation mission system capability and to maintaining tactical relevance in support of the Air Wing of the Future.

Development continues for design and integration of avionics systems, integration of Jamming Techniques Optimization (JATO) improvements, evolutionary software upgrades via the System Configuration Set (SCS) block builds and related testing. Through FY2027, EA-18G Growler efforts will focus on developing quality components, with concurrent recurring modification; continuing advanced development engineering; and improving reliability and maintainability. These collective efforts will enhance availability of critical assets to the fleet and maximize lifetime total cost of ownership benefits.

Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Navy					Date: April 2022
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 5: *System Development & Demonstration (SDD)*			R-1 Program Element (Number/Name) PE 0604269N *I EA-18 Squadrons*		
B. Program Change Summary ($ in Millions)	**FY 2021**	**FY 2022**	**FY 2023 Base**	**FY 2023 OCO**	**FY 2023 Total**
Previous President's Budget	106.134	68.425	0.000	-	0.000
Current President's Budget	104.003	59.674	116.589	-	116.589
Total Adjustments	-2.131	-8.751	116.589	-	116.589
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-8.751			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-2.131	0.000			
• Program Adjustments	0.000	0.000	0.000	-	0.000
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000
• Adjustments to Budget Year	-	-	116.589	-	116.589

Change Summary Explanation

Technical: Not Applicable

Cost: Not applicable

Schedule:
- Updated the Software Development line in Systems Development to better align the H Build implementation.
- Updated the Integration Testing line to align with the H Build implementation.
- Added H16 OT EOC period 1QFY21 to 4QFY21 to align with H16 SCS software release.
- Added H16 OT ICP-3 period from 1QFY22-2QFY23 to align with H16 Growler Capability Modification (GCM) Release.
- Removed LBDR schedule event as it is included as part of the H16 OT ICP-3 period and part of the H16+ GCM release.

FY 2023 funding increase reflects the fact that the FY 2022 President’s Budget request did not include out-year funding.

Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy											Date: April 2022	
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604269N / *EA-18 Squadrons*				Project (Number/Name) 3063 / *EA-18G Development*			
COST ($ in Millions)	**Prior Years**	**FY 2021**	**FY 2022**	**FY 2023 Base**	**FY 2023 OCO**	**FY 2023 Total**	**FY 2024**	**FY 2025**	**FY 2026**	**FY 2027**	**Cost To Complete**	**Total Cost**
3063: *EA-18G Development*	2,383.882	104.003	59.674	116.589	-	116.589	100.765	87.205	89.281	82.802	67.024	3,091.225
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: 378

A. Mission Description and Budget Item Justification

The EA-18G development program upgrades the Airborne Electronic Attack (AEA) capability to detect, identify, locate and suppress hostile emitters; provides enhanced connectivity to National, Theater and Strike assets; and provides passive organic precision emitter targeting for employment of precision strike weapons and onboard suppression weapons (High-speed Anti-Radiation Missile family) to fulfill operational requirements. The performance of the aircraft is compatible with the primary strike/ fighter aircraft projected to be in the inventory, allowing it to be fully integrated into specific strike packages.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Title: EA-18G AEA System Enhancements (ASE) and Integrated Capability Package (ICP-3)	30.247	14.233	13.732	0.000	13.732
Articles:	-	-	-	-	-
Description: The EA-18G has the capability to operate autonomously or as a major node in a network-centric operation and is being designed to perform a range of Electronic Warfare/Electronic Attack functions either simultaneously or independently. Funding will be utilized for design and integration of avionics systems into the EA-18G.					
FY 2022 Plans: Continuation of the H16 plan, with Operational Test (OT) activities and integration of improvements developed through the JATO teams. Work includes engineering, flight hours and test efforts for ALQ-218 Attack Systems Enhancements (ASE) upgrade requirements to improve low band geolocation, signal detection, and identification capabilities necessary for complex emitter geo-location and identification. Funds will support a combined hardware/software solution to address evolving threats and provide significant capability enhancements to the ALQ-218, such as the Low Band Dedicated Receiver (LBDR) and capacity improvements. To incorporate those ALQ-218 ASE upgrades with the System Configuration Set (SCS) fleet releases on EA-18G, FY22 funding supports engineering, system integration, SCS development, Operational Flight Program re-hosting, test planning, materials, lab equipment, and lab/flight testing. Funding also continues to support development (hardware and software) of test and integration efforts for H16 Software Configuration Set (SCS) build such as Distributed Target Processor-Network (DTP-N) capabilities, Time Difference of Arrival (TDOA), Network Centric Collaborative Targeting (NCCT) and Wingman Compatibility improvements.					
FY 2023 Base Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604269N / *EA-18 Squadrons*	**Project (Number/Name)** 3063 / *EA-18G Development*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Continuation of the H16 plan, with OT activities and integration of improvements developed through the JATO teams. Work includes engineering, flight hours and test efforts for ALQ-218 ASE upgrade requirements to improve low band geolocation, signal detection, and identification capabilities necessary for complex emitter geo-location and identification. Funds will support a combined hardware/software solution to address evolving threats and provide significant capability enhancements to the ALQ-218, such as the LBDR and capacity improvements. To incorporate those ALQ-218 ASE upgrades with the SCS fleet releases on EA-18G, FY23 funding supports engineering, system integration, H-18 SCS development, Operational Flight Program re-hosting, test planning, materials, lab equipment, and lab/flight testing. Funding also continues to support development (hardware and software) of test and integration efforts for H16 SCS build such as DTP-N capabilities, TDOA, NCCT and Wingman Compatibility improvements. Funding will support the final incorporation of LBDR under the H18 build. ***FY 2023 OCO Plans:*** N/A ***FY 2022 to FY 2023 Increase/Decrease Statement:*** Decrease of $0.501 million from FY 2022 to FY 2023 due to a result in overall operational test decrease from ICP-3 to LBDR/Mid-band focused.					
Title: EA-18G System Configuration Set (SCS) Development & Integration	10.495	8.777	5.305	0.000	5.305
Articles:	-	-	-	-	-
Description: Capability enhancements to improve the EA-18G Airborne Electronic Attack capabilities are predominantly realized through evolutionary software upgrades. Funding will be utilized to develop improved software capabilities for the EA-18G through SCS block software updates. ***FY 2022 Plans:*** Continue SCS block software development and integration for the EA-18G, specifically SCS builds H18 and H20. Increase to engineering efforts for integration of active and passive kill chain capabilities and sensors. Funding for Multi Source Integration algorithm and sensor developmental efforts also increase for test activities for ongoing modeling and simulation upgrades such as Net Enabled Weapon Controller Interface Model interoperability software and equipment, and Live Virtual Constructive interoperability efforts. ***FY 2023 Base Plans:*** Continue SCS block software development and integration for the EA-18G, specifically SCS H18 and H20 builds. Funding also continues to support engineering efforts for integration of active and passive kill chain capabilities and sensors. Funding for Multi Source Integration algorithm and sensor developmental efforts					

Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604269N / *EA-18 Squadrons*	**Project (Number/Name)** 3063 / *EA-18G Development*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
also increase for test activities for ongoing modeling and simulation upgrades such as Net Enabled Weapon Controller Interface Model interoperability software and equipment, and Live Virtual Constructive interoperability ***FY 2023 OCO Plans:*** N/A ***FY 2022 to FY 2023 Increase/Decrease Statement:*** Decrease of $3.472 million from FY 2022 to FY 2023 is due to H18 System Configuration Set (SCS) requirement having significantly fewer capabilities planned for the EA-18G.					
Title: EA-18G Flight Plan Engineering	2.547	2.083	35.311	0.000	35.311
Articles:	-	-	-	-	-
Description: EA-18G "Flight Plan" spiral capability development is critical to the baseline of the Growler next generation mission system capability. Funding will support the development, test and integration efforts required to maintain tactical relevance in support of Navy Aviation Plan 2030. ***FY 2022 Plans:*** Continue Flight Plan Engineering efforts to include EA-18G improvements necessary for Growler relevance and tactical supremacy; Navy Integrated Fire Control-Counter Air system configuration set requirements to support Navy Integrated Air and Missile Defense capability requirements and enhance EA-18G Cooperative Engagement Capability. ***FY 2023 Base Plans:*** Continue Flight Plan Engineering efforts to include EA-18G improvements necessary for Growler relevance and tactical supremacy; Navy Integrated Fire Control-Counter Air system configuration set requirements to support Navy Integrated Air and Missile Defense capability requirements, beyond line of sight communications and enhance EA-18G Cooperative Engagement Capability. Conduct dedicated Low Band Dedicated Receiver (LBDR) and NGJ Mid Band flight testing events. ***FY 2023 OCO Plans:*** N/A ***FY 2022 to FY 2023 Increase/Decrease Statement:*** Increase of $33.228 million from FY 2022 to FY 2023 for dedicated flight testing associated with Low Band Dedicated Receiver (LBDR) NGJ mid-band and beyond line of sight communications efforts.					
Title: EA-18G Growler Block II	60.714	34.581	62.241	0.000	62.241
Articles:	-	-	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604269N / *EA-18 Squadrons*	**Project (Number/Name)** 3063 / *EA-18G Development*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Description: The Growler Block II (GBII) upgrade will implement innovative capability improvements required for Naval Aviation to regain and sustain an advantage in the EMS until the EA-18G replacement. GB II will utilize a phased approach for spiral development of AEA capabilities. Phase 1 will include an upgraded Electronic Attack Unit (EAU) and Reactive Electronic Attack Measures (REAM). REAM uses cognitive EW machine learning algorithms to provide the warfighter with capabilities to counter advanced dynamic Integrated Air Defense System (IADS) by detecting and identifying unknown complex RADAR emitters. Phase 2 will include an advanced Multi-Function Array (MFA) in the Inboard Leading Edge Flap (ILEF) augmenting the ALQ-218 functionality and capability. The Office of Naval Research (ONR) Future Naval Capability (FNC) Electromagnetic Maneuver Warfare Resource Allocation Management (EMW RAM) is a software algorithm development planned for Growler Block II implementation that will provide the necessary communication sensor and jamming resource management capability. Future phases will include capability that aligns to the overall Growler roadmap. ***FY 2022 Plans:*** Continue to progress through the Systems Engineering Technical Reviews (SETR) towards Critical Design Review (CDR) and establishment of the Product Baseline. The continued integration and testing of prototype hardware and software will inform and mature the capability enhancements. Continue EAU hardware design upgrades and REAM software development into the H20 SCS and EMW RAM maturation in three primary Technical Areas: EW Battle Management Framework, Adaptive System Management (ASM), and Teaming Interface between Aircrew and Machines for transition into Growler Block II spiral capability incorporations. ***FY 2023 Base Plans:*** Continue GBII Phase I from post CDR development towards a Test Readiness Review (TRR) and begin lab test and integration of Engineering and Manufacturing Development (EMD) units of the upgraded EAU with REAM capability. Initial GBII Phase 2 efforts will include a prototype of the advanced Multi-Function Array (MFA) in the Inboard Leading Edge Flap (ILEF) and EMW RAM software development targeted for H22 integration and fielding. ***FY 2023 OCO Plans:*** N/A ***FY 2022 to FY 2023 Increase/Decrease Statement:*** Increase of $27.66 million from FY 2022 to FY 2023 accounts for significant hardware and software development efforts, lab and integration testing associated with Growler Block II.					
Accomplishments/Planned Programs Subtotals	104.003	59.674	116.589	0.000	116.589

Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604269N / *EA-18 Squadrons*	**Project (Number/Name)** 3063 / *EA-18G Development*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
• APN/0505: *F-18E/F and EA-18G Modernization and Sustainment*	399.348	445.721	572.681	-	572.681	629.256	518.199	522.603	542.178	5,769.676	9,399.662
• RDTEN/1662: *F/A-18 Improvement*	123.089	145.613	177.710	-	177.710	226.596	253.265	252.863	205.756	397.688	6,420.122

Remarks

D. Acquisition Strategy

The program achieved Full Rate Production in November 2009. Studies are underway for Growler Block II capabilities and those efforts will be integrated into the overall EA-18G plan/roadmap as resources permit. EA-18G software upgrades are incrementally developed, integrated and fielded. Software development and integration are coordinated efforts between government activities and industry partners to field capability upgrades to the EA-18G fleet.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy			Date: April 2022
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Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
SCS Software Development & Integration	C/IDIQ	Northrop Grumman : Various	31.655	9.938	Dec 2020	0.979	Dec 2021	0.085	Dec 2022	-		0.085	0.000	42.657	42.657
SCS Software Development & Integration	WR	NAWCWD : China Lake, CA	130.312	3.986	Dec 2020	0.000		0.061	Dec 2022	-		0.061	0.000	134.359	-
SCS Software Development & Integration	WR	NAWCWD : Pt. Mugu, CA	103.789	2.891	Dec 2020	0.353	Dec 2021	5.159	Dec 2022	-		5.159	0.000	112.192	-
Systems Engineering (Flight Plan)	WR	ONR : Arlington, VA	0.125	0.634	Nov 2020	0.141	Nov 2021	1.800	Nov 2022	-		1.800	43.120	45.820	-
Primary Hardware Development (Flight Plan - TDOA)	C/CPFF	Northrop Grumman : Various	7.237	1.500	Dec 2020	0.000		0.000		-		0.000	0.000	8.737	8.737
Systems Engineering (ASE/ICP-3)	WR	NAWCAD : Pax River, MD	42.231	0.000		4.209	Dec 2021	0.000		-		0.000	0.000	46.440	-
Systems Engineering (ASE/ICP-3)	Various	Various : Various	20.108	2.562	Dec 2020	0.000		0.000		-		0.000	0.000	22.670	-
Systems Engineering (Flight Plan)	Various	Various : Various	0.000	0.000		0.000		23.800	Mar 2023	-		23.800	54.158	77.958	-
Primary Hardware Development (ALQ-218 ASE)	C/IDIQ	Northrop Grumman : Various	154.811	2.657	Apr 2021	0.000		0.361	Apr 2023	-		0.361	0.000	157.829	157.829
Primary Hardware Development (ALQ-218 ASE)	C/CPFF	Boeing : St. Louis, MO	0.000	0.300	Jan 2021	0.000		0.000		-		0.000	0.000	0.300	0.300
Systems Engineering (ALQ-218 ASE)	WR	NAWCWD : Pt. Mugu, CA	0.000	0.040	Dec 2020	0.000		0.000		-		0.000	0.000	0.040	-
Primary Hardware Development (ALQ-218 LBDR)	C/IDIQ	Northrop Grumman : Various	0.000	2.470	Dec 2020	0.000		4.783	Dec 2022	-		4.783	24.682	31.935	31.935
Systems Engineering (Growler Block 2/REAM)	WR	NAWCAD : Pax River, MD	2.200	4.000	Nov 2020	8.050	Nov 2021	15.661	Nov 2022	-		15.661	48.430	78.341	-
Systems Engineering (Growler Block 2/REAM)	WR	NAWCWD : Pt. Mugu, CA	3.570	2.674	Nov 2020	9.892	Nov 2021	11.055	Nov 2022	-		11.055	42.614	69.805	-
Systems Engineering (Growler Block 2/REAM)	WR	NSWC : Crane, IN	0.156	0.000		0.737	Dec 2021	0.000		-		0.000	0.000	0.893	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604269N / *EA-18 Squadrons*	**Project (Number/Name)** 3063 / *EA-18G Development*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary Hardware Development (Growler Block 2/REAM)	Various	NSMA : Various	0.000	0.000		0.000		0.000		-		0.000	0.271	0.271	-
Primary Hardware Development (Growler Block 2/REAM)	C/IDIQ	Boeing : Various	3.938	0.000		7.487	Mar 2022	0.000		-		0.000	0.000	11.425	11.425
Systems Engineering (Growler Block 2/REAM)	Various	Various : Various	0.000	0.000		0.811	Dec 2021	0.138	Dec 2022	-		0.138	0.579	1.528	-
Primary Hardware Development (Growler Block 2/REAM)	C/IDIQ	Northrop Grumman : Various	7.222	0.000		1.530	Jun 2022	0.000		-		0.000	0.000	8.752	8.752
H20 Growler Block II	C/IDIQ	Boeing : St. Louis, MO	50.493	35.649	Dec 2020	0.000		22.922	Dec 2022	-		22.922	40.297	149.361	149.361
Growler Block II/REAM	WR	NAWCWD : China Lake, CA	0.000	0.000		6.075	Nov 2021	0.000		-		0.000	0.000	6.075	-
H20 Growler Block II	WR	NAWCWD : China Lake, CA	3.240	8.023	Nov 2020	0.000		9.435	Nov 2022	-		9.435	44.732	65.430	-
Prior Year Prod Dev no longer funded in FYDP	Various	Various : Various	1,201.736	0.000		0.000		0.000		-		0.000	0.000	1,201.736	-
		Subtotal	1,762.823	77.324		40.264		95.260		-		95.260	298.883	2,274.554	N/A

Remarks

Increase from FY2022 to FY2023 in support of Phase 2 development of the Inboard Leading Edge Flaps (ILEF) hardware efforts at China Lake and EMW RAM software efforts and design and implementation of beyond line of sight support of Growler Block II.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
SCS Development & Integration	Various	NAWCWD : Pt. Mugu	4.598	1.854	Dec 2020	2.073	Dec 2021	2.016	Dec 2022	-		2.016	7.539	18.080	-
SCS Development & Integration Support	C/IDIQ	Northrop Grumman : Various	1.824	0.600	Jan 2021	1.118	Jan 2022	0.600	Jan 2023	-		0.600	4.800	8.942	8.942

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy			Date: April 2022
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Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
SCS Development & Integration Support	WR	NAWCWD : China Lake, CA	2.292	0.696	Dec 2020	1.073	Dec 2021	1.066	Dec 2022	-		1.066	5.342	10.469	-
Flight Plan Engineering	Various	Various : Various	1.388	0.953	Dec 2020	0.893	Dec 2021	0.421	Dec 2022	-		0.421	3.688	7.343	-
AEA FST Engineering Support (Flight Plan Engineering & SCS)	WR	NSWC : Crane	1.322	4.557	Nov 2020	3.076	Nov 2021	2.970	Nov 2022	-		2.970	6.243	18.168	-
ASE/ICP-3 (DTP-N)	WR	NAWCWD : China Lake, CA	13.121	2.002	Dec 2020	0.000		0.000		-		0.000	0.000	15.123	-
ASE/ICP-3 (DTP-N)	C/CPFF	Boeing : St. Louis, MO	0.000	0.000		2.958	Feb 2022	0.000		-		0.000	0.000	2.958	2.958
ASE/ICP-3 (DTP-N)	WR	SPAWAR : San Diego, CA	0.695	1.295	Dec 2020	0.051	Dec 2021	0.000		-		0.000	0.000	2.041	-
ASE/ICP-3 (DTP-N)	Various	NSMA : Various	9.062	1.044	Dec 2020	1.530	Dec 2021	2.250	Dec 2022	-		2.250	9.309	23.195	-
CDS Accrediation (DTP-N)	Various	Various : Various	1.193	1.935	Nov 2020	1.223	Nov 2021	0.752	Nov 2022	-		0.752	3.990	9.093	-
Prior Year Support no longer funded in FYDP	Various	Various : Various	235.711	0.000		0.000		0.000		-		0.000	0.000	235.711	-
		Subtotal	271.206	14.936		13.995		10.075		-		10.075	40.911	351.123	N/A

Remarks

Decrease from FY2022 to FY2023 due to completion of H16 specific DTP-N efforts

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Flight Plan Integration & Operational Testing	WR	Various : Various	149.071	5.129	Dec 2020	0.105	Dec 2021	5.844	Dec 2022	-		5.844	41.954	202.103	-
ASE/ICP-3 (DTP-N) Integration & Operational Testing	WR	COTF : China Lake, CA	5.107	1.100	Dec 2020	3.481	Dec 2021	3.551	Dec 2022	-		3.551	29.346	42.585	-
ASE/ICP-3 (DTP-N) Integration & Operational Testing	C/IDIQ	Boeing : St. Louis, MO	1.735	4.362	Mar 2021	0.000		0.000		-		0.000	0.000	6.097	6.097

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy			Date: April 2022
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Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
ASE/ICP-3 (DTP-N) Integration & Operational Testing	WR	Various : Various	0.311	0.034	Nov 2020	0.000		0.000		-		0.000	0.000	0.345	-
Prior Year T&E no longer funded in FYDP	Various	Various : Various	108.530	0.000		0.000		0.000		-		0.000	0.000	108.530	-
		Subtotal	264.754	10.625		3.586		9.395		-		9.395	71.300	359.660	N/A

Remarks

Increase from FY2022 to FY2023 in support of H16 operational test events for Low Band Dedicated Receiver (LBDR).

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
ASE/ICP-3 (DTP-N) Program Management Support (Seaport-CSS)	C/CPFF	Wyle Lab : Pax River, MD	16.475	0.015	Mar 2021	0.000		0.000		-		0.000	0.000	16.490	16.490
PMMAC Contract	C/CPFF	Tekla : Pax River, MD	0.320	0.170	Apr 2021	0.341	Apr 2022	0.349	Apr 2023	-		0.349	3.057	4.237	4.237
ASE/ICP-3 (DTP-N) Engineering Support	WR	NAWCAD : Pax River, MD	34.484	0.078	Dec 2020	0.392	Dec 2021	0.400	Dec 2022	-		0.400	3.498	38.852	-
Flight Plan Engineering Support	WR	NAWCWD : China Lake	3.964	0.240	Dec 2020	0.383	Dec 2021	0.383	Dec 2022	-		0.383	3.060	8.030	-
Flight Plan Engineering Support	C/CPFF	Boeing : St. Louis, MO	25.363	0.605	Feb 2021	0.694	Feb 2022	0.707	Feb 2023	-		0.707	6.194	33.563	33.563
Travel	WR	Various : Various	3.152	0.010	Dec 2020	0.019	Dec 2021	0.020	Dec 2022	-		0.020	0.174	3.375	-
Prior Year Mgmt Svcs no longer funded in FYDP	Various	Various : Various	1.341	0.000		0.000		0.000		-		0.000	0.000	1.341	-
		Subtotal	85.099	1.118		1.829		1.859		-		1.859	15.983	105.888	N/A

	Prior Years	FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	2,383.882	104.003		59.674		116.589		-		116.589	427.077	3,091.225	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy			Date: April 2022
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604269N / *EA-18 Squadrons*	Project (Number/Name) 3063 / *EA-18G Development*	

	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604269N / *EA-18 Squadrons*	**Project (Number/Name)** 3063 / *EA-18G Development*

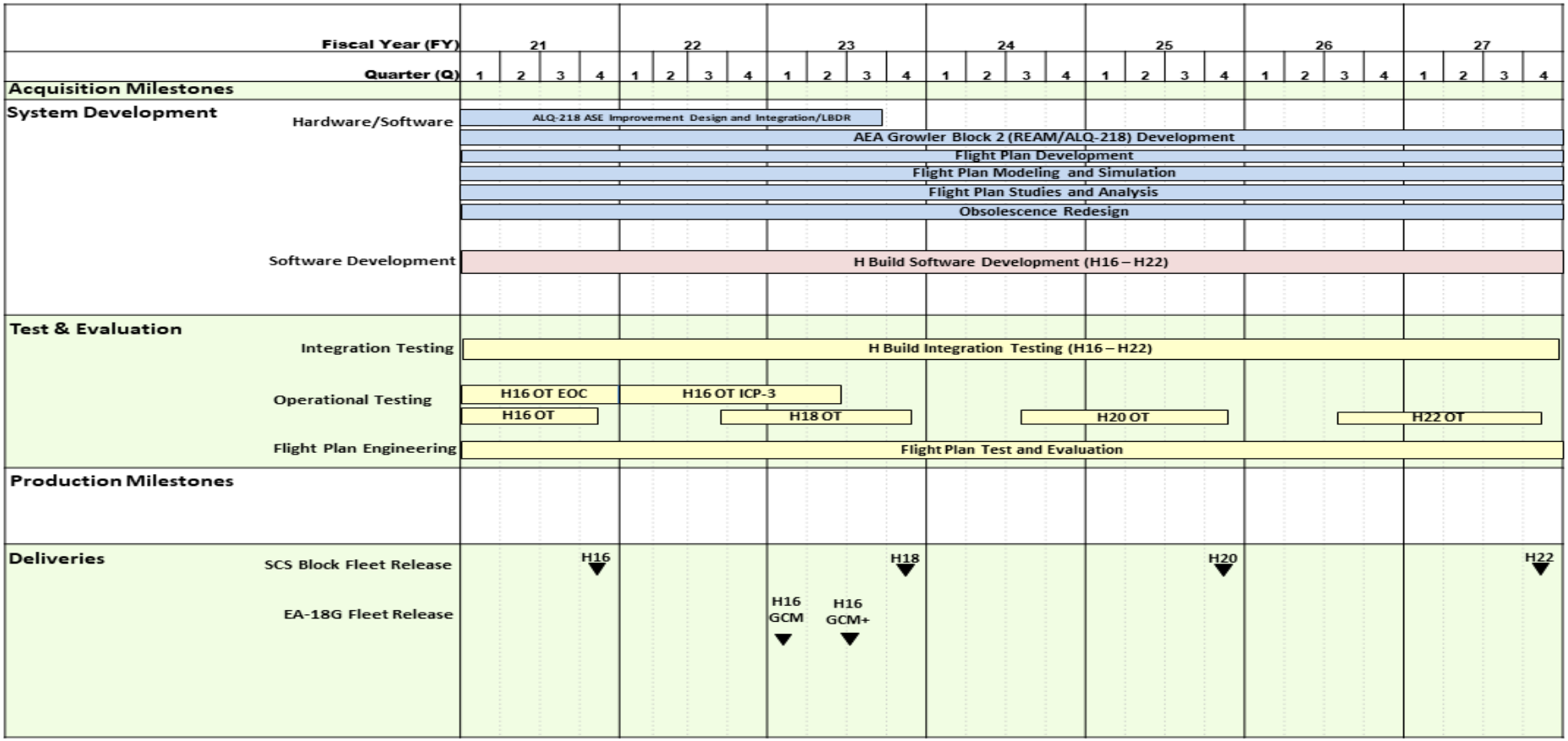

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 5	**R-1 Program Element (Number/Name)** PE 0604269N / *EA-18 Squadrons*	**Project (Number/Name)** 3063 / *EA-18G Development*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
EA-18G Development				
Systems Development: Hardware/Software: ALQ-218 ASE Improvement Design and Integration	1	2021	3	2023
Systems Development: Hardware/Software: Growler Block 2 AEA Development	1	2021	4	2027
Systems Development: Hardware/Software: Flight Plan Development	1	2021	4	2027
Systems Development: Hardware/Software: Flight Plan Modeling and Simulation	1	2021	4	2027
Systems Development: Hardware/Software: Flight Plan Studies and Analysis	1	2021	4	2027
Systems Development: Hardware/Software: Obsolescence Redesign Development and Testing	1	2021	4	2027
Systems Development: Software Development: H Build Software Development	1	2021	4	2027
Test & Evaluation: Integration Testing: H Build Integration Testing	1	2021	4	2027
Test & Evaluation: Operational Testing: H16 Operational Testing - EOC	1	2021	4	2021
Test & Evaluation: Operational Testing: H16 Operational Test - ICP-3	1	2022	2	2023
Test & Evaluation: Operational Testing: H18 Operational Testing	3	2022	4	2023
Test & Evaluation: Operational Testing: H20 Operational Testing	3	2024	4	2025
Test & Evaluation: Operational Testing: H22 Operational Testing	3	2026	4	2027
Test & Evaluation: Flight Plan Engineering: Developmental, Integration and Operational Testing	1	2021	4	2027
Deliveries: H16 Fleet Release	4	2021	4	2021
Deliveries: H16 GCM	1	2023	1	2023
Deliveries: H16 GCM+	3	2023	3	2023
Deliveries: H18 Fleet Release	4	2023	4	2023
Deliveries: H20 Fleet Release	4	2025	4	2025
Deliveries: H22 Fleet Release	4	2027	4	2027