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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604216N / <i>Multi-Mission Helicopter Upgrade Dev</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	1,583.105	16.178	19.196	27.340	-	27.340	29.524	28.098	22.105	22.549	Continuing	Continuing
1707: <i>MH-60 Development</i>	1,583.105	16.178	19.196	27.340	-	27.340	29.524	28.098	22.105	22.549	Continuing	Continuing

A. Mission Description and Budget Item Justification

This Program Element funds the development and improvement of MH-60R/S systems. MH-60R/S Multi-Mission helicopters deploy with Carrier Air Wings aboard aircraft carriers and in support of expeditionary detachments aboard cruisers, destroyers, amphibious ships, Littoral Combat Ships and auxiliaries, in addition to supporting operation ashore. The MH-60R represents a significant avionics improvement to the H-60 series helicopters by enhancing primary mission areas of Surface Warfare (SUW), Anti-Submarine Warfare, Electronic Warfare, Command and Control, and Non-Combat Operations. Secondary missions include: Amphibious Warfare, Air Warfare, Health Services, Fleet Support-Operations, Intelligence Operations, Logistics, and Naval Special Warfare. Primary missions of the MH-60S include SUW, Special Operations Forces Support, Personnel Recovery and Airborne Mine Countermeasures (AMCM). Additional missions include Combat Logistics, Vertical Replenishment, Search and Rescue, Humanitarian Assistance and Disaster Response.

B. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	16.611	19.196	21.244	-	21.244
Current President's Budget	16.178	19.196	27.340	-	27.340
Total Adjustments	-0.433	0.000	6.096	-	6.096
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.433	0.000			
• Program Adjustments	0.000	0.000	6.070	-	6.070
• Rate/Misc Adjustments	0.000	0.000	0.026	-	0.026

Change Summary Explanation

FY 2021 increase of \$6.096M for System Configuration development and testing activities required for bi-annual System Configuration releases.

Schedule: Mid Life Upgrade (MLU) end date extended from 4QFY2020 to 4QFY2025 for ongoing Future Capabilities Studies, SC18 DT end date changed from 4QFY2019 to 2QFY2020 due to software maturity, Integration/Testing for Net Enabled Weapons has shifted from 3QFY2021 through 4QFY22 to 2QFY22 through 2QFY24 to align with development and allow for correction of deficiencies.

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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 0604216N / <i>Multi-Mission Helicopter Upgrade Dev</i>	
Technical: Not Applicable		

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy										Date: February 2020		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604216N / <i>Multi-Mission Helicopter Upgrade Dev</i>				Project (Number/Name) 1707 / <i>MH-60 Development</i>			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
1707: <i>MH-60 Development</i>	1,583.105	16.178	19.196	27.340	-	27.340	29.524	28.098	22.105	22.549	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The MH-60R/S program pursues upgrades and enhancements that pace the rapidly evolving threat and improve safety-of-flight for its pilots and aircrew. These efforts include improvements to existing sensors, weapon systems, avionics, communications, and navigation systems as well as integration of modern precision guided air-to-ground missiles, fixed-forward and crew-served weapons, the Sensor Operator Console, and data-fusion capability. The program is also evaluating Diminishing Manufacturing Sources and Material Shortages (DMSMS) and making incremental improvements to various airframe, flight safety, and mission-planning systems. The program will continue development of architecture to support integration of secure, over-the-horizon communications in addition to modern en route navigation and terminal approach systems. MH-60R/S research and development initiatives include the evaluation and validation of the platform's cybersecurity posture. The MH-60R/S program is pursuing capability studies on open hardware and software architectures, avionics, mission systems, and air-vehicle performance.

FY 2021 budget request funds the following:

1. System Configuration (SC) 20 capability increases, including fuel management and safety, Advanced Offboard Electronic Warfare (AOEW), and Multi-functional Information Distribution System (MIDS) Block Upgrade 2. SC2X includes J11 messages, Common Aircraft Survivability Equipment (ASE), Distributed Aperture Infrared Counter Measures (DAIRCM), Minotaur/Enhanced Data Fusion mission management suite, and Avionics DMSMS solutions.
2. Development of critical aircraft survivability equipment upgrades, including the platform design for the integration of Common ASE/DAIRCM. DAIRCM substantially improves the survivability of MH-60 aircraft, significantly enhancing the defense of high value units and enabling operations in high threat scenarios.
3. Development of Network Enabled Weapons capability, including the integration of J11 and J12.6 series messages within the MH-60 Link-16 architecture. These messages enable over-the-horizon targeting, enhance target sorting, and serve as a force multiplier in network enabled weapon engagements.
4. DMSMS engineering, replacement part development, and qualification testing for known and forecasted Avionics, Mission Systems, and other obsolete parts. These DMSMS solutions will provide considerations for cost reduction and improvement in reliability and performance. The obsolescence solutions will align with the Future Capabilities Roadmap to minimize duplication and align the Mid life upgrade configuration changes with the needed solutions.
5. Developmental activities including capability studies, interoperability studies, and open hardware and software architectures definition in support of MH-60 mid life upgrades.

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: Avionics H/W and S/W Development	8.538	16.339	20.800	0.000	20.800
Articles:	-	-	-	-	-

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604216N / <i>Multi-Mission Helicopter Upgrade Dev</i>	Project (Number/Name) 1707 / <i>MH-60 Development</i>

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<p>Description: Development efforts support aircraft integration, problem investigation, lab management and upgrades, and repairs in support of the test program. Individual Avionics and Mission Systems hardware and software upgrades are integrated, tested and fielded as part of an overall MH-60 System Configuration (e.g. SC18, SC20, SC2X, etc.). System Configuration fleet releases are planned for every two years to meet fleet requirements, add new capabilities, pace the threat, address obsolescence, and incorporate technology insertion. Avionics hardware and software development and integration efforts include: Pre-planned Product Improvements, new System Configurations, RADAR enhancements, VOR/ILS, solutions to address the Fast Attack Craft/Fast In-shore Attack Craft (FAC/FIAC) threat, development of Network Enabled Weapons capability which includes the integration of J11 and J12.6 series messages into the MH-60R/S Link-16 architecture, development of critical ASE upgrades, cyber evaluations/validations, DMSMS solutions (to include ALFS, Automatic Flight Control Computer (AFCC) Mission Systems and Avionics), Minotaur/Enhanced Data Correlation integration.</p> <p>FY 2020 Plans: Continue System Configuration 20 development which includes capability improvements for fuel management and safety, AOEW, and MIDS Block Upgrade 2. Continue development of J11 and J12.6 series messages and operator controls for Network Enabled Messages. Commence activities for System Configuration 2X development including integration of the DAIRCM system to improve survivability, and Minotaur/Enhanced Data Correlation mission management suite. Commence development efforts and define requirements for ALFS DMSMS solutions considering reliability improvement, loading factors, weight and cost reduction, capability and performance improvements. Continue cyber evaluation and APS-153 radar development efforts.</p> <p>FY 2021 Base Plans: Continue System Configuration 20 development and integration efforts. Continue development of J11 and J12.6 series messages and operator controls for Network Enabled Messages. Continue activities for System Configuration 2X development including integration of the Common ASE/DAIRCM system to improve survivability and Minotaur/Enhanced Data Fusion mission management suite. Commence System Configuration 2Y activities. Continue development efforts for MH-60 Avionics and Mission Systems DMSMS solutions. Continue cyber evaluation and APS-153 radar development efforts.</p> <p>FY 2021 OCO Plans: N/A</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement:</p>					

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604216N / <i>Multi-Mission Helicopter Upgrade Dev</i>	Project (Number/Name) 1707 / <i>MH-60 Development</i>			
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)					
	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Increase of \$4.461M from FY 2020 to FY 2021 for System Configuration 20 software development and the ramp-up of Network Enabled Weapons.					
Title: Engineering and Logistics	3.122	2.485	2.040	0.000	2.040
Articles:	-	-	-	-	-
FY 2020 Plans:					
Continue to provide MH-60 engineering support, integrated logistics support, government furnished equipment, support equipment, program management, contract support services, and travel to support System Configuration 20, Common ASE Architecture development, Network Enabled Weapons integration, APS-153 radar development, capability studies and initial open architectures, avionics, mission system, and air vehicle development cost and schedule planning estimates. Commence engineering support, integrated logistics support, government furnished equipment, support equipment, program management, contract support services, and travel to support System Configuration 2X, DAIRCM development and contract preparation, and Minotaur/ Enhanced Data Correlation integration contract preparation and award. Commence DMSMS engineering support to develop and define requirements for ALFS obsolescence solutions.					
FY 2021 Base Plans:					
Continue to provide MH-60 engineering support, integrated logistics support, government furnished equipment, support equipment, program management, contract support services, and travel to support System Configuration 20, Common ASE Architecture development, Network Enabled Weapons integration, APS-153 radar development, capability studies and initial open architectures, avionics, mission system, and air vehicle development cost and schedule planning estimates. Continue engineering support, integrated logistics support, government furnished equipment, support equipment, program management, contract support services, and travel to support System Configuration 2X, DAIRCM development, Radar Upgrade, and contract preparation and award. Commence System Configuration 2Y requirements development efforts. Continue Avionics and Mission Systems DMSMS engineering support.					
FY 2021 OCO Plans:					
N/A					
FY 2020 to FY 2021 Increase/Decrease Statement:					
Decrease of \$0.445M from FY 2020 to FY 2021 due to reduction of engineering required for Network Enabled Weapons requirements definition and radar development.					
Title: Test and Evaluation	4.518	0.372	4.500	0.000	4.500

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604216N / <i>Multi-Mission Helicopter Upgrade Dev</i>	Project (Number/Name) 1707 / <i>MH-60 Development</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Articles:	-	-	-	-	-
FY 2020 Plans: Continue System Configuration 20 test support. Commence System Configuration 2X.					
FY 2021 Base Plans: Continue System Configuration 20 and 2X test support and commence radar enhancement testing.					
FY 2021 OCO Plans: N/A					
FY 2020 to FY 2021 Increase/Decrease Statement: Increase of \$4.128M from FY 2020 to FY 2021 due to System Configuration 20 and 2X testing and commencement of radar development test.					
Accomplishments/Planned Programs Subtotals	16.178	19.196	27.340	0.000	27.340

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

Line Item	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
• APN-5/0530: <i>SH60 Series</i>	128.523	141.612	131.584	-	131.584	108.011	129.536	122.330	133.441	Continuing	Continuing

Remarks

D. Acquisition Strategy

MH-60 research and development efforts will be developed using cost plus incentive fee type and cost plus fixed fee contracts.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604216N / <i>Multi-Mission Helicopter Upgrade Dev</i>	Project (Number/Name) 1707 / <i>MH-60 Development</i>
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Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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
Network Enabled Weapons	SS/CPIF	Lockheed Martin : Owego, NY	0.000	4.000	Feb 2019	4.989	Mar 2020	12.800	Nov 2020	-		12.800	5.840	27.629	27.629
Cyber Evaluation/ Validation	TBD	JHU/APL : Laurel, MD	1.323	0.738	May 2019	1.300	Jan 2020	0.500	Jan 2021	-		0.500	1.929	5.790	5.790
Common ASE Architecture	SS/CPFF	Lockheed Martin : Owego, NY	0.000	0.000		1.800	Apr 2020	1.000	Dec 2020	-		1.000	4.000	6.800	6.800
Radar Development	TBD	JHU/APL : Laurel, MD	0.000	0.300	Mar 2019	2.000	Jan 2020	2.086	Jan 2021	-		2.086	0.000	4.386	4.386
MH-60 DMSMS Solutions/ Tech Insertion	SS/IDIQ	Various : Various	0.000	0.000		3.150	Jan 2020	2.200	Dec 2020	-		2.200	25.720	31.070	31.070
Minotaur Development	SS/CPFF	Lockheed Martin : Owego, NY	0.000	0.000		2.100	Apr 2020	0.000		-		0.000	0.000	2.100	2.100
System Configuration Releases	SS/CPFF	Lockheed Martin : Owego, NY	0.000	3.500	Nov 2018	1.000	Dec 2019	1.964	Dec 2020	-		1.964	Continuing	Continuing	Continuing
Mid-Life Upgrade	SS/CPFF	Lockheed Martin : Owego, NY	0.000	0.000		0.000		0.250	May 2021	-		0.250	0.000	0.250	0.250
Prior year Product Dev Cost no longer funded in the FYDP	Various	Various : Various	1,176.887	0.000		0.000		0.000		-		0.000	0.000	1,176.887	1,176.887
Subtotal			1,178.210	8.538		16.339		20.800		-		20.800	Continuing	Continuing	N/A

Remarks
Increase from FY 2020 to FY 2021 to support ramp-up of Net Enabled Weapons and System Configuration 20/2X efforts.

Support (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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
Government eng spt, Very High Frequency Omni Ranging/Instrument Landing Sysem (VOR ILS)	Various	Various : Various	0.695	0.049	Nov 2018	0.000		0.000		-		0.000	0.000	0.744	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Navy												Date: February 2020			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)						Project (Number/Name)					
1319 / 5				PE 0604216N / Multi-Mission Helicopter Upgrade Dev						1707 / MH-60 Development					
Support (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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
Government Eng Support , System Configuration 18	Various	Various : Various	0.057	0.200	Nov 2018	0.000		0.000		-		0.000	0.000	0.257	-
Government Eng Support, Mid-Life Upgrade	Various	Various : Various	0.214	0.583	Nov 2018	0.447	Nov 2019	0.250	Nov 2020	-		0.250	Continuing	Continuing	Continuing
Government Eng Support, Net Enabled Weapons	Various	Various : Various	0.000	0.500	Nov 2018	0.600	Nov 2019	0.475	Nov 2020	-		0.475	0.790	2.365	-
Government Eng Support, Common ASE Architecture	Various	Various : Various	0.000	0.100	Nov 2018	0.750	Nov 2019	0.200	Nov 2020	-		0.200	0.500	1.550	-
Government Eng Support, Radar Dev	Various	Various : Various	0.000	1.390	Dec 2018	0.300	Nov 2019	0.265	Nov 2020	-		0.265	0.000	1.955	-
Government Eng Support, DMSMS	WR	NAWC AD : Patuxent River, MD	0.000	0.000		0.118	Nov 2019	0.200	Nov 2020	-		0.200	Continuing	Continuing	Continuing
Government Eng Support, System Configuration Releases	Various	Various : Various	0.000	0.250	Nov 2018	0.220	Nov 2019	0.400	Nov 2020	-		0.400	Continuing	Continuing	Continuing
Government Eng Support, Cyber Evaluation	Various	Various : Various	0.000	0.000		0.000		0.200	Nov 2020	-		0.200	0.250	0.450	-
Prior year support cost no longer funded in the FYDP	Various	Various : Various	166.295	0.000		0.000		0.000		-		0.000	0.000	166.295	-
Subtotal			167.261	3.072		2.435		1.990		-		1.990	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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
DT&E, System Configuration 18	Various	Various : Various	1.165	0.800	Nov 2018	0.000		0.000		-		0.000	0.000	1.965	-
DT&E, System Configurations	WR	NAWC AD : Patuxent River, MD	0.000	3.718	Nov 2018	0.253	Nov 2019	3.750	Nov 2020	-		3.750	13.500	21.221	-
DT&E, Avionics DMSMS	WR	NAWC AD : Patuxent River, MD	0.000	0.000		0.119	Nov 2019	0.250	Nov 2020	-		0.250	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604216N / <i>Multi-Mission Helicopter Upgrade Dev</i>	Project (Number/Name) 1707 / <i>MH-60 Development</i>
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Test and Evaluation (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
DT&E, Network Enabled Weapons	WR	NAWC AD : Patuxent River, MD	0.000	0.000		0.000		0.000		-		0.000	4.520	4.520	-
DT&E, Common ASE	WR	NAWC AD : Patuxent River, MD	0.000	0.000		0.000		0.000		-		0.000	0.250	0.250	-
DT&E, Radar Development	WR	NAWC AD : Patuxent River, MD	0.000	0.000		0.000		0.500	Nov 2020	-		0.500	0.250	0.750	-
Prior year T&E costs no longer funded in the FYDP	Various	Various : Various	197.198	0.000		0.000		0.000		-		0.000	0.000	197.198	-
Subtotal			198.363	4.518		0.372		4.500		-		4.500	Continuing	Continuing	N/A

Remarks
Increase from FY 2020 to FY 2021 to support System Configuration 20 and the commencement of System Configuration 2X and radar development.

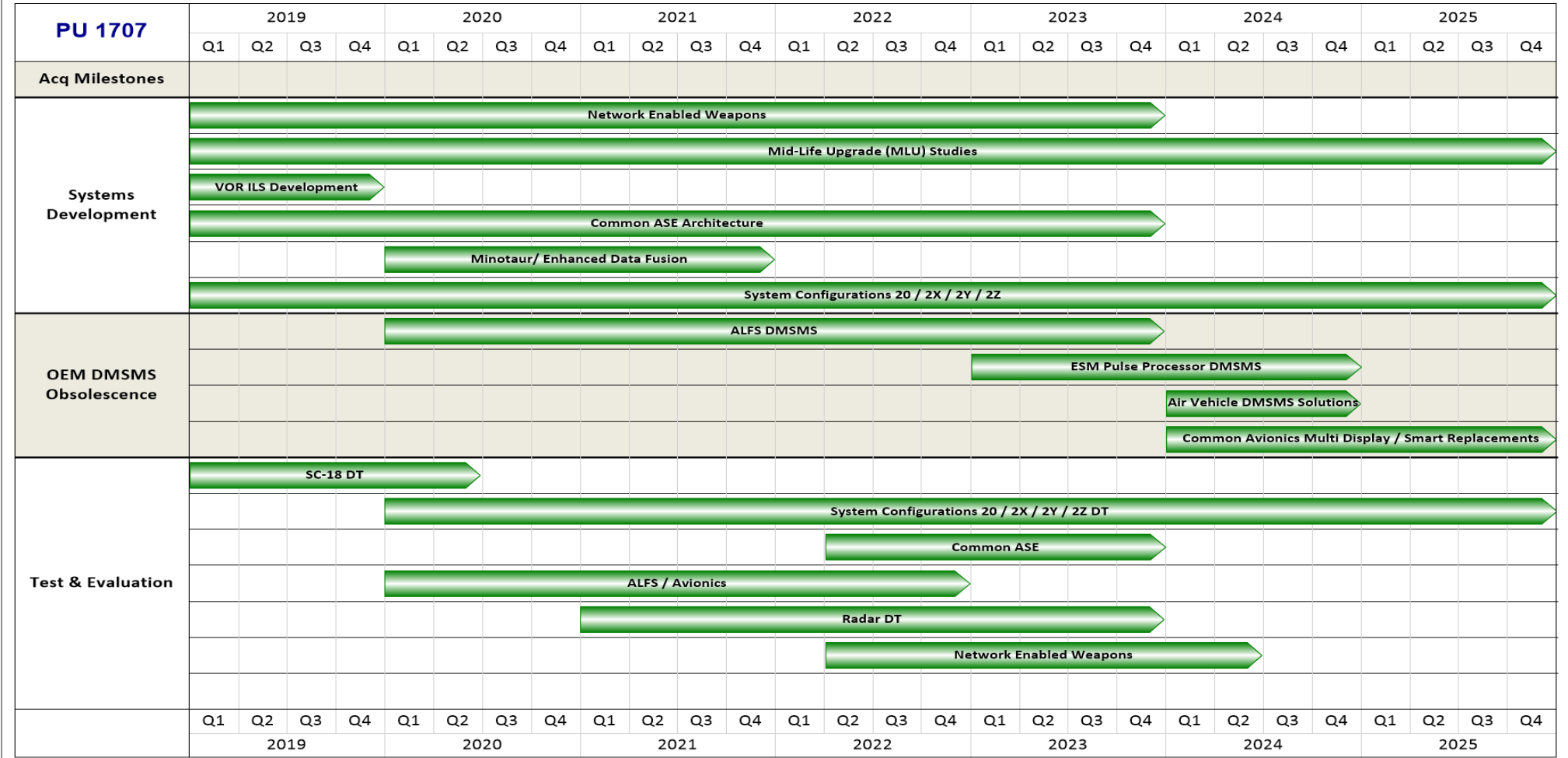
Management Services (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Travel	WR	NAWC AD : Patuxent River, MD	5.015	0.050	Oct 2018	0.050	Oct 2019	0.050	Oct 2020	-		0.050	0.200	5.365	-
Prior year Mgmt Serv cost no longer funded in the FYDP	Various	Various : Various	34.256	0.000		0.000		0.000		-		0.000	0.000	34.256	-
Subtotal			39.271	0.050		0.050		0.050		-		0.050	0.200	39.621	N/A

	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals		1,583.105	16.178	19.196	27.340	-	27.340	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Navy		Date: February 2020
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Snapshot Date: 1/7/2020

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Navy		Date: February 2020
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604216N / <i>Multi-Mission Helicopter Upgrade Dev</i>	Project (Number/Name) 1707 / <i>MH-60 Development</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
PE 0604216N: Multi-Mission Helicopter Upgrade Development				
Systems Development: Network Enabled Weapons	1	2019	4	2023
Systems Development: Mid-Life Upgrade (MLU) Studies: MLU Studies	1	2019	4	2025
Systems Development: Very High Frequency Omni Ranging/Instrument Landing System (ILS): ILS integration	1	2019	4	2019
Systems Development: Common ASE Architecture: Common ASE Architecture	1	2019	4	2023
Systems Development: Minotaur/Enhanced Data Fusion: Minotaur/Enhanced Data Correlation	1	2020	4	2021
Systems Development: System Configurations: System Configurations 20 / 2X / 2Y / 2Z	1	2019	4	2025
OEM DMSMS Obsolescence: ALFS DMSMS	1	2020	4	2023
OEM DMSMS Obsolescence: ESM Pulse Processor DMSMS	1	2023	4	2024
OEM DMSMS Obsolescence: Air Vehicle DMSMS Solutions	1	2024	4	2024
OEM DMSMS Obsolescence: Common Avionics Multifunction Display/Smart Multifunction Display Replacements	1	2024	4	2025
Test and Evaluation: System Configuration 18 (SC18) DT	1	2019	2	2020
Test and Evaluation: System Configurations DT	1	2020	4	2025
Test and Evaluation: Common ASE	2	2022	4	2023
Test and Evaluation: ALFS / Avionics	1	2020	4	2022
Test and Evaluation: Radar DT	1	2021	4	2023
Test and Evaluation: Integration and Testing of Network Enabled Weapons	2	2022	2	2024