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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force **Date:** March 2024

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605229F / HH-60W
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	1,968.319	27.722	48.268	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,044.309
654364: <i>Combat Rescue Helicopter</i>	1,968.319	27.722	48.268	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,044.309
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

Program MDAP/MAIS Code: 479

Note

In FY 2025, PE 0605229F, HH-60W, Project 654364, Combat Rescue Helicopter, Budget Activity 5, System Development & Demonstration (SDD) efforts will transfer to PE 0605229F, HH-60W, Project 670001, HH-60W Modernization Development, Budget Activity 7, Operational Systems Development to transition the HH-60W program from production to post-production capability upgrades and sustainment.

A. Mission Description and Budget Item Justification

The Combat Rescue Helicopter (CRH) program will replace the aging HH-60G. The HH-60G currently supports the Air Force's core function of Personnel Recovery. The primary mission of the HH-60G is to conduct day / night / marginal weather Combat Search and Rescue (CSAR) in order to recover downed aircrew or other isolated personnel in hostile or non-permissive environments.

The CRH will be capable of employment day or night, in adverse weather, and across the full spectrum of threats to include chemical, biological, radiological, and nuclear. On-board defensive capabilities will permit the CRH system to operate with less risk than legacy systems in an increased threat environment. An in-flight air refueling capability will provide an airborne alert capability and extend its combat mission range. The CRH system is capable of conducting combat search and rescue airborne mission commander duties. The aircraft will be self-supporting to the maximum extent practical. The CRH system may also conduct other collateral missions inherent in their capabilities to conduct Personnel Recovery, such as non-conventional assisted recovery, non-conventional evacuation operations, defense support to civil authorities, civil search and rescue, international aid, emergency aeromedical evacuation, disaster/humanitarian relief, counter-drug activities, support for National Aeronautics and Space Administration flight operations, and insertion/extraction of combat forces.

The CRH development program procured a total of 11 aircraft as follows: 4 Engineering, Manufacturing, and Development (EMD) aircraft, 5 System Demonstration Test Article (SDTA) aircraft, and 2 modernization flight test aircraft. The CRH program office will procure necessary ground and flight assets required for both Development Test (DT) and Initial Operational Test & Evaluation (IOT&E). The CRH EMD program includes development of the complete CRH training system to include CRH Weapon System Trainer (WST), Operational Flight Trainer (OFT), Airframe Systems Trainer (AST), Avionics Desktop Trainer (AVDTT), other training devices, with associated spares and support equipment, as well as courseware required to perform flight, aircrew and maintenance training. Other development efforts include a systems integration laboratory, an avionics integration support facility, procurement of data rights and licenses, spares, aircraft, Government test, product support and program support costs (PSC). The CRH program will also pursue modernization efforts to develop and integrate enhancements in mission/defensive systems

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<p>and additional system upgrades to address critical capability gaps. The program office will utilize the additional flight test aircraft in support of modernization efforts to address emerging threats and evolving mission needs.</p> <p>The Delta Training Device (DTD) effort will procure additional training assets, including but not limited to, maintenance and aircrew Crew Chief Part Task Trainers (CCPTT), aircrew Hoist Procedural Trainers (HPT), Virtual Reality (VR)/Mixed Reality (MR) maintenance aircrew trainers, associated spares and support equipment, as well as Type 1 training.</p> <p>Capability upgrades and modernization development efforts for the CRH may include, but are not limited to, the following priorities: Situational Awareness Data Link/Automatic Direction Finder (SADL/ADF) Removal, Directional Infrared Countermeasures (DIRCM), Electro Optical/Infrared (EO/IR) Tactical Overlay, Global Positioning System Anti-Jam/Anti-Spoof (GPS-AJ), Degraded Visual Environment (DVE) system, Integrated Vehicle Health Monitoring System Control (IVHMS), Video Data Link (VDL), Radio Frequency Jammer (RF-Jammer), Mobile User Objective System (MUOS), Electronic Flight Bags, and Automated Dependent Surveillance Broadcast - In Device. Capability upgrades and modernization also supports inclusion for mandates, system enhancements, hardware and software changes for diminishing manufacturing sources and material shortages as well as Deficiency Report Resolutions. In addition, studies, development, prototyping, testing and integration of emerging technology and support equipment opportunities to increase the effectiveness of the platform are considered in capability upgrades and modernization initiatives.</p> <p>The CRH program funding also supports innovation activities to include studies, analyses, requirements definition, and quick-reaction capability prototypes/demonstrations to accelerate planning for technology transition, technology insertion and future acquisition programs.</p> <p>This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.</p> <p>This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, and 0606398F. In FY 2023, \$4.540 million was expended for civilian pay expenses in this program element, and in FY 2024, \$5.879 million is forecast for civilian pay expenses in this program element.</p> <p>This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.</p>		

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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	58.974	48.268	42.220	0.000	42.220
Current President's Budget	27.722	48.268	0.000	0.000	0.000
Total Adjustments	-31.252	0.000	-42.220	0.000	-42.220
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	-29.500	0.000			
• SBIR/STTR Transfer	-1.752	0.000			
• Other Adjustments	0.000	0.000	-42.220	0.000	-42.220

Change Summary Explanation

FY 2023 funding request was reduced by a total of \$31.252 million which includes \$1.752 million for Small Business Innovation Research (SBIR) and \$29.5 million to account for the availability of prior year execution balances and Capabilities Upgrades schedule change.

FY 2025 funding request was reduced by \$42.220 million due to transfer of effort to Budget Activity 7, Operational System Development, PE 0605229F, HH-60W, Project 670001, HH-60W Modernization Development to transition the HH-60W program from production to post-production capability upgrades and sustainment.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Title: HH-60W Development	10.146	15.841	0.000
Description: Develop a new helicopter, associated training system and support elements that leverage fielded, non-developmental technologies to recapitalize the HH-60G fleet.			
FY 2024 Plans: Continue development efforts to include but not limited to include Tactical Cross-Domain Solution (TACDS), Failure Modes Effects Testing (FMET), and Baseline Master Plan (BLIMP).			
FY 2025 Plans: N/A			
FY 2024 to FY 2025 Increase/Decrease Statement: Funding decreased due to transfer of effort to Budget Activity 7, Operational System Development, PE 0605229F, HH-60W, Project 670001, HH-60W Modernization Development.			
Title: HH-60W Government Test and Evaluation	2.925	3.117	0.000

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Description: Conduct test and evaluation on the HH-60W and associated training systems to support DT&E, IOT&E, Live Fire Test and Evaluation (LFT&E), and other test planning and organizational support.</p> <p>FY 2024 Plans: Government testing to include operations testing, live-fire testing and evaluation tasks. Continue developmental and operational test for Capability Upgrades program.</p> <p>FY 2025 Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding decreased due to transfer of effort to Budget Activity 7, Operational System Development, PE 0605229F, HH-60W, Project 670001, HH-60W Modernization Development.</p>			
<p>Title: Capability Upgrades & Modernization</p> <p>Description: Modernize the HH-60W fleet by studying, prototyping, testing and integrating developmental and non-developmental technologies into the platform, including electro-optical infrared technology imaging system.</p> <p>FY 2024 Plans: Continue modernization efforts to include prioritized capabilities, software release process, mandates, diminishing manufacturing sources and material shortages, Deficiency Report Resolutions, Operational Flight Programs, studies, prototyping testing and integration of emerging technologies, carry-on equipment, IDIQ Delivery Order 1 (DO1) and support equipment opportunities.</p> <p>FY 2025 Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding decreased due to transfer of effort to Budget Activity 7, Operational System Development, PE 0605229F, HH-60W, Project 670001, HH-60W Modernization Development.</p>	14.651	29.310	0.000
Accomplishments/Planned Programs Subtotals	27.722	48.268	0.000

D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• RDTE 07 0605229F: HH-60W	0.000	0.000	52.314	-	52.314	33.278	99.504	86.096	87.795	0.000	358.987

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

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• MILCON Line Item 0207229F: <i>Combat Rescue Helicopter</i>	24.395	0.000	0.000	-	0.000	0.000	0.000	0.000	-	0.000	24.395
• APAF 04 Line Item H060WH: <i>Combat Rescue Helicopter</i>	1,205.995	282.533	162.685	-	162.685	54.671	0.000	0.000	-	0.000	1,705.884
• APAF 06 Line Item H060WH: <i>Combat Rescue Helicopter</i>	119.768	0.000	1.859	-	1.859	2.338	2.397	2.434	2.483	0.000	131.279
• APAF 05 Line Item H060WM: <i>HH60W Modifications</i>	3.083	0.000	28.911	-	28.911	68.453	74.007	76.805	78.667	0.000	329.926

Remarks

E. Acquisition Strategy

Procure a new helicopter and associated training systems, and support elements that leverage fielded non-developmental technologies to re-capitalize the HH-60G fleet.

Under the development effort, the CRH program procured a total of ten aircraft as follows: four Engineering, Manufacturing, and Development (EMD) aircraft, five System Demonstration Test Article (SDTA) aircraft, and one modernization flight test aircraft. The FY 2020 PB added the modernization flight test aircraft. The CRH program office will procure necessary ground and flight assets required for both Development Test (DT) and Initial Operational Test & Evaluation (IOT&E).

The main CRH program includes development of the complete CRH system to include delivery of ten aircraft, associated training systems to include WST, OFT, AVDTT, AST, other Part Task Trainers, associated spares and support elements/equipment, as well as Type 1 training and courseware required to perform flight, aircrew and maintenance training. An additional prime contract was awarded to develop and acquire additional training devices. Other efforts include, but are not limited to development of a systems integration laboratory and an avionics integration support facility, as well as procurement of data rights and licenses, spares, product support and program support costs for the EMD effort. The CRH modernization effort will maximize, where possible, opportunities for production line cut-in to minimize the amount of future post-production modifications needed.

The current contract types for this effort are predominantly Fixed Price. As originally planned following source selection, a formal CRH Training System Requirements Analysis (TSRA) was completed in Sep 2015. This analysis identified additional training requirements not accounted for in the original contract. A subsequent TSRA review incorporating the latest annual Ready Aircrew Program (RAP) Tasking Memorandum (RTM) clarified the additional training requirements to increase the research and development of training devices and courseware. These additional training devices, associated spares, support equipment, Type 1 Training and initial contractor support were competitively awarded in Aug 2018.

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

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0605229F / HH-60W	Project (Number/Name) 654364 / Combat Rescue Helicopter
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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
HH-60W aircraft development, integration, test articles, trainers, support and contractor test	C/FPIF	Sikorsky Aircraft Corporation : Stratford, CT	1,699.834	0.946	Dec 2023	8.195	Jul 2024	-		-		-	0.000	1,708.975	-
Acquisition of additional HH-60W training devices including MACE	C/FFP	Various : TBD	35.356	4.206	Sep 2023	-		-		-		-	0.000	39.562	-
HH-60W Capability Upgrades and Modernization- New IDIQ Contract and EOIR	C/FPIF	Sikorsky Aircraft Corp : Stratford, CT	83.407	14.651	Sep 2023	29.310	Mar 2024	-		-		-	0.000	127.368	-
Subtotal			1,818.597	19.803		37.505		-		-		-	0.000	1,875.905	N/A

Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
HH-60W product support related to aircraft development, integration, test articles, trainers and contractor test	Various	Various : TBD	57.186	0.454	Dec 2023	1.767	Jan 2024	-		-		-	0.000	59.407	-
Direct Cite Civ Pay	Various	AFLCMC : TBD	2.867	4.540	Sep 2023	5.879	Sep 2024	-		-		-	0.000	13.286	-
Subtotal			60.053	4.994		7.646		-		-		-	0.000	72.693	N/A

Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
HH-60W planning and testing to support developmental and operational test, live fire	PO	413th Test Squadron : Eglin AFB, FL	50.743	2.925	Mar 2023	3.117	Mar 2024	-		-		-	0.000	56.785	-

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

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0605229F / HH-60W	Project (Number/Name) 654364 / Combat Rescue Helicopter
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Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
test and other weapon system testing and support															
Subtotal			50.743	2.925		3.117		-		-		-	0.000	56.785	N/A

Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
HH-60W A&AS Support	C/CPFF	EPASS : Dayton, OH	28.761	-		-		-		-		-	0.000	28.761	-
HH-60W Other Program Support Costs	Various	Various : Various	10.165	-		-		-		-		-	0.000	10.165	-
Subtotal			38.926	-		-		-		-		-	0.000	38.926	N/A

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
	Project Cost Totals		1,968.319	27.722	48.268	-	-	0.000	2,044.309

Remarks
 FINANCIAL PERFORMANCE: HH-60W is evaluated against traditional Research and Development (R&D) program expenditure benchmarks. Unlike many traditional R&D programs, however, the HH-60W EMD contract is a Fixed Price Incentive Fee (FPIF) contract with progress payments. Ten (10%) percent of incurred costs are withheld until the end of the contract, when they are liquidated. Mandatory funding obligations and progress payment withholds will cause the program to lag traditional expenditure benchmarks, painting an inaccurate portrait of overall program health.

FY20+: Transitioned Management Services to APAF.

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force **Date:** March 2024

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0605229F / HH-60W	Project (Number/Name) 654364 / Combat Rescue Helicopter
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FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

HH-60W	
HH-60W EMD Development	
HH-60W CRH Training System EMD Development	
HH-60W Test and Evaluation	
Developmental Test and Evaluation	
Capability Upgrades and Modernization	

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force **Date:** March 2024

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0605229F / HH-60W	Project (Number/Name) 654364 / Combat Rescue Helicopter
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
HH-60W				
HH-60W EMD Development	1	2023	1	2025
HH-60W CRH Training System EMD Development	1	2023	4	2023
HH-60W Test and Evaluation	1	2023	1	2025
Developmental Test and Evaluation	1	2023	4	2024
Capability Upgrades and Modernization	1	2023	4	2024

Note

Capability Upgrades and Modernization events moved to PE 0605229F, HH-60W, Project 670001, HH-60W Modernization Development, Budget Activity 7, Operational Systems Development to transition the HH-60W program from production to post-production capability upgrades and sustainment.