

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0102110F / <i>UH-1N Replacement Program</i>
--	--

COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	381.577	165.844	41.388	16.132	0.000	16.132	-	-	-	-	-	-
672021: <i>MH-139A</i>	381.577	165.844	41.388	16.132	0.000	16.132	-	-	-	-	-	-
Quantity of RDT&E Articles	4	2	-	-	-	-	-	-	-	-	-	-

Program MDAP/MAIS Code: 562

A. Mission Description and Budget Item Justification

The MH-139A program will replace the Air Force fleet of UH-1N aircraft with modern helicopters that will close significant mission capability gaps associated with the current fleet of UH-1N aircraft. The replacement aircraft will provide vertical airlift and support the requirements of four Air Force major commands and operating agencies: Air Force Global Strike Command (AFGSC), Air Force District of Washington (AFDW), Air Education and Training Command (AETC), and Air Force Material Command (AFMC). AFGSC is the Air Force lead command and operational capability requirements sponsor. This program is an element of the Air Force's nuclear enterprise reform initiatives.

Program includes, but is not limited to, continued funding for four test aircraft and two System Demonstration Test Article (SDTA) aircraft, support equipment, Interim Contractor Support (ICS), training system devices, Type I training and courseware, non-developmental item (NDI) integration, cyber test articles, associated Government support activities, remedy of Demonstration Test (DT) deficiencies, and permits the initiation of activities to support rapid requirement development.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver the MH-139A weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605831F. In FY 2020 \$3.892 million was expended for civilian pay expenses in this program element, and in FY 2021 \$4.789 million is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Air Force	Date: May 2021
--	-----------------------

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0102110F / <i>UH-1N Replacement Program</i>
--	--

B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	170.975	44.464	16.375	0.000	16.375
Current President's Budget	165.844	41.388	16.132	0.000	16.132
Total Adjustments	-5.131	-3.076	-0.243	0.000	-0.243
• Congressional General Reductions	0.000	-0.076			
• Congressional Directed Reductions	0.000	-3.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-5.131	0.000			
• Other Adjustments	0.000	0.000	-0.243	0.000	-0.243

Change Summary Explanation

FY 2020 funding reduced by \$5.131 million for Small Business Innovation Research.
 FY 2021 funding reduced by \$3.0 million due to Congressional Directed Reductions for A&AS unjustified growth.
 FY 2022 funding reduced by \$0.243 million to account for the availability of prior year execution balances.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
Title: MH-139 Development	145.274	31.685	8.308
Description: Development of MH-139A helicopter and integration of non-developmental item (NDI) hardware, software, and other capabilities into aircraft system, training systems, support elements and technical/manufacturing baselines to achieve MH-139A operational capability requirements.			
FY 2021 Plans: Continue systems engineering efforts, government oversight, contractor and government systems engineering tasks and management services.			
FY 2022 Plans: Continue systems engineering efforts, government oversight, contractor and government systems engineering tasks and management services.			
FY 2021 to FY 2022 Increase/Decrease Statement: Funding decreased due to anticipated completion of MH-139A research and development phase and entry into Milestone C and Full-Rate Production.			
Title: MH-139 Government Test and Evaluation	20.570	9.703	7.824

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Air Force	Date: May 2021
--	-----------------------

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0102110F / <i>UH-1N Replacement Program</i>
--	--

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
Description: System and subsystem test and evaluation and remedy of DT deficiencies of the MH-139 solution.			
FY 2021 Plans: Continue LFT&E, DT and OA, and OT support execution.			
FY 2022 Plans: Continue LFT&E, DT and OA, and OT support execution.			
FY 2021 to FY 2022 Increase/Decrease Statement: Funding decreased due to anticipated completion of LFT&E of test articles in last quarter of FY 2022 prior to Milestone C entry.			
Accomplishments/Planned Programs Subtotals	165.844	41.388	16.132

D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• APAF 04 Line Item H0106O: <i>UH-1N Replacement</i>	0.000	194.016	0.000	-	0.000	-	-	-	-	-	-
• APAF 06 Line Item H0106O: <i>UH-1N Replacement Initial Spares/Repair Parts</i>	0.000	18.389	0.000	-	0.000	-	-	-	-	-	-
• MILCON 0: <i>UH-1N Replacement - Primary Facility</i>	46.000	0.000	0.000	-	0.000	-	-	-	-	-	-

Remarks

E. Acquisition Strategy
The Air Force intends to procure an airworthiness-certified baseline helicopter that requires non-developmental item integration (e.g. Electro-Optical/Infrared Sensor, personnel recovery hoists, cockpit/cabin armor, etc.) and training systems to meet all operational capability requirements. Specific acquisition and contracting strategies for RDT&E funded integration tasks and the test and evaluation program will be determined as part of the overall program strategy.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Air Force **Date:** May 2021

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0102110F / UH-1N Replacement Program	Project (Number/Name) 672021 / MH-139A
--	---	--

Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
MH-139 weapon system integration and type/airworthiness certification	C/FFP	Boeing : Philadelphia, PA	352.439	115.726	Dec 2019	11.831	Dec 2020	1.207	Dec 2021	-		1.207	-	-	-
Subtotal			352.439	115.726		11.831		1.207		-		1.207	-	-	N/A

Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
MH-139 Other Government Costs	C/Various	Various : TBD	2.355	8.948	Jan 2020	2.145		1.401		-		1.401	-	-	-
MH-139 Direct Cite Authority CIV Pay	C/Various	Various : TBD	0.890	3.892	Jan 2020	4.789		-		-		-	-	-	-
Subtotal			3.245	12.840		6.934		1.401		-		1.401	-	-	N/A

Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
MH-139 live fire, developmental, and operational test and evaluation, planning and technical support	Various	Various : TBD	11.589	20.570	Dec 2019	9.703		7.824		-		7.824	-	-	-
Subtotal			11.589	20.570		9.703		7.824		-		7.824	-	-	N/A

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Air Force		Date: May 2021
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0102110F / UH-1N Replacement Program	Project (Number/Name) 672021 / MH-139A

FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
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

MH-139A Program	
MH-139A NDI Contract	
Test and Evaluation	
System/Subsystem Test and Integration	
Weapon System Integration	
Milestone C	
Required Assets Available for Initial Operational Capability	

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2022 Air Force		Date: May 2021
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0102110F / UH-1N Replacement Program	Project (Number/Name) 672021 / MH-139A

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
MH-139A Program				
MH-139A NDI Contract	1	2020	4	2023
Test and Evaluation	1	2020	4	2023
System/Subsystem Test and Integration	1	2020	4	2022
Weapon System Integration	1	2020	4	2022
Milestone C	1	2023	1	2023
Required Assets Available for Initial Operational Capability	3	2025	3	2025