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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Air Force **Date:** February 2016

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>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	14.116	0.000	14.116	19.675	15.675	0.000	0.000	0.000	49.466
672021: <i>UH-1N Replacement Program</i>	-	0.000	0.000	14.116	0.000	14.116	19.675	15.675	0.000	0.000	0.000	49.466
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note
 This program, BA 07 PE 0102110F, project 672021, Design and Integration, is a new start.
 This program, BA 07 PE 0102110F, project 672021, Test and Evaluation, is a new start.

A. Mission Description and Budget Item Justification

The UH-1N Replacement 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 five Air Force major commands and operating agencies: Air Force Global Strike Command (AFGSC), Air Force District of Washington, Air Education and Training Command, Pacific Air Forces, and Air Force Materiel Command. 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.

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.

B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	14.116	0.000	14.116
Total Adjustments	0.000	0.000	14.116	0.000	14.116
• 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	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	14.116	0.000	14.116

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Change Summary Explanation

Based on CY2015 market research, the Air Force believes the UH-1N Replacement program will include a need to integrate certain non-developmental military equipment and capabilities into an existing in-production commercial or military helicopter. This requirement will involve one-time systems engineering activities to integrate this equipment into an existing technical and manufacturing baseline, and revise the aircraft type and airworthiness certifications accordingly. Additional systems engineering activities will be needed to integrate UH-1N Replacement program requirements into operational mission planning and aircrew training systems associated with the aircraft solution. The Air Force also believes live fire test and evaluation activities will be necessary to assess compliance with aircraft protection and survivability requirements. Qualification and operational test and evaluation will be necessary to validate the solution's operational performance, effectiveness, and suitability. These RDT&E-related requirements emerged subsequent to the previous President's Budget, and form the basis for requesting RDT&E, AF funding in the current President's Budget.

<u>C. Accomplishments/Planned Programs (\$ in Millions)</u>	FY 2015	FY 2016	FY 2017
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<i>Title:</i> Design and Integration	0.000	0.000	9.366
<i>Description:</i> Design and integration of non-developmental equipment and other capabilities into existing aircraft system and technical/manufacturing baselines to achieve UH-1N Replacement operational capability requirements.			
<i>FY 2015 Accomplishments:</i> N/A			
<i>FY 2016 Plans:</i> N/A			
<i>FY 2017 Plans:</i> Initiate systems engineering efforts to incorporate non-developmental equipment and capabilities into existing aircraft technical and manufacturing baselines to achieve operational capability requirements, including associated mission planning and aircrew training systems. Includes contractor and government systems engineering tasks to revise aircraft type and airworthiness certifications.			

<i>Title:</i> Test and Evaluation	0.000	0.000	4.750
<i>Description:</i> System and subsystem test and evaluation of the UH-1N Replacement solution.			
<i>FY 2015 Accomplishments:</i> N/A			
<i>FY 2016 Plans:</i> N/A			
<i>FY 2017 Plans:</i>			

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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>
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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
Initiate test planning activities and conduct early operational assessment of the UH-1N Replacement vendor's existing commercial/military baseline aircraft system; initiate planning for system/subsystem live fire test and evaluation (LFT&E); procure subsystem component test articles for LFT&E			
Accomplishments/Planned Programs Subtotals	0.000	0.000	14.116

D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
• APAF: BA04: Line Item #H0106O: <i>UH-1N Replacement</i>	0.000	0.000	18.337	0.000	18.337	171.420	224.111	281.948	292.647	-	-
• APAF: BA05: Line Item #H0106O: <i>UH-1N Replacement</i>	0.000	2.456	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-
• APAF: BA06: Line Item #000999: <i>Initial Spares/Repair Parts</i>	0.000	0.000	0.000	0.000	0.000	6.032	9.227	12.555	12.811	-	-
• MILCON: PE 0207576F: <i>Consolidated Helicopter Operations, Tactical Response Force Alert, and Aircraft Maintenance Facilities</i>	0.000	19.700	0.000	0.000	0.000	61.900	58.600	0.000	0.000	-	-

Remarks

E. Acquisition Strategy
 The Air Force intends to procure an in-production commercial/government-off-the-shelf helicopter that requires only minimal integration of existing non-developmental military equipment (e.g. forward looking infrared sensors, personnel recovery hoists, auxiliary internal fuel tanks, cockpit/cabin armor, etc.) as necessary to meet all operational capability requirements. The overarching program acquisition strategy will be determined in 3Q/FY2016. Specific acquisition and contracting strategies for RDT&E funded design/integration tasks and the test & evaluation program will be determined as parts of the overall program strategy. The Air Force intends to enter the acquisition process at Milestone C, and contract for this program no later than the end of 3Q/FY2017.

F. Performance Metrics
 Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force												Date: February 2016				
Appropriation/Budget Activity 3600 / 7				R-1 Program Element (Number/Name) PE 0102110F / UH-1N Replacement Program				Project (Number/Name) 672021 / UH-1N Replacement Program								
Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
UH-1N Replacement weapon system design, integration, and type/airworthiness certification	TBD	TBD : TBD	-	0.000		0.000		8.116	Jun 2017	0.000		8.116	Continuing	Continuing	22.466	
Subtotal			-	0.000		0.000		8.116		0.000		8.116	-	-	22.466	
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
Subtotal			-	-		-		-		-		-	-	-	-	
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
UH-1N Replacement live fire, qualification, and operational test and evaluation and technical support	Various	Various : TBD	-	0.000		0.000		4.750	Mar 2017	0.000		4.750	Continuing	Continuing	23.250	
Subtotal			-	0.000		0.000		4.750		0.000		4.750	-	-	23.250	
Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
UH-1N Replacement program management activity	Various	Various : TBD	-	0.000		0.000		1.250	Jan 2017	0.000		1.250	Continuing	Continuing	3.750	
Subtotal			-	0.000		0.000		1.250		0.000		1.250	-	-	3.750	

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	Prior Years	FY 2015	FY 2016		FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals	-	0.000	0.000		14.116	0.000	14.116	-	-	49.466	

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0102110F / UH-1N Replacement Program	Project (Number/Name) 672021 / UH-1N Replacement Program

	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	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
Acquisition Strategy Panel																												
Milestone C Decision Review and Contract Award																												
Weapon System Design and Integration																												
-- Design and Integration																												
-- Aircraft Type and Airworthiness Certification Revisions																												
Operational Assessment (OA)																												
-- OA Planning																												
-- OA Execution and Reporting																												
Live Fire Test and Evaluation (LFTE)																												
-- LFTE Planning, Test Article Build																												
-- LFTE Execution and Reporting																												
Qualification Test and Evaluation (QTE)																												
-- QTE Planning																												
-- QTE Execution and Reporting																												
Operational Test and Evaluation																												
-- OTE Planning																												
-- OTE Execution and Reporting																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0102110F / UH-1N Replacement Program	Project (Number/Name) 672021 / UH-1N Replacement Program

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Acquisition Strategy Panel	3	2016	3	2016
Milestone C Decision Review and Contract Award	3	2017	3	2017
Weapon System Design and Integration	4	2017	2	2020
-- Design and Integration	4	2017	2	2019
-- Aircraft Type and Airworthiness Certification Revisions	3	2018	2	2020
Operational Assessment (OA)	2	2017	1	2018
-- OA Planning	2	2017	3	2017
-- OA Execution and Reporting	4	2017	1	2018
Live Fire Test and Evaluation (LFTE)	4	2017	3	2020
-- LFTE Planning, Test Article Build	4	2017	1	2019
-- LFTE Execution and Reporting	2	2018	3	2020
Qualification Test and Evaluation (QTE)	2	2018	1	2020
-- QTE Planning	2	2018	2	2019
-- QTE Execution and Reporting	2	2019	1	2020
Operational Test and Evaluation	1	2019	2	2020
-- OTE Planning	1	2019	4	2019
-- OTE Execution and Reporting	1	2020	2	2020

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