Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force

Date: February 2019

Appropriation/Budget Activity

3600: Research, Development, Test & Evaluation, Air Force I BA 7:

Operational Systems Development

R-1 Program Element (Number/Name)

PE 0102110F I UH-1N Replacement Program

oporational of otomo = or oropimo.	••											
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	3.398	188.259	258.022	170.975	0.000	170.975	44.544	16.400	4.300	0.400	0.000	686.298
672021: UH-1N Replacement Program	3.398	188.259	258.022	170.975	0.000	170.975	44.544	16.400	4.300	0.400	0.000	686.298
Quantity of RDT&E Articles	-	4	-	2	-	2	-	-	-	-		

Program MDAP/MAIS Code: 562

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 Material 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.

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 air vehicles and devices, Type I training and courseware, non-developmental item (NDI) integration, cyber test articles, associated Government support activities, 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 UH-1N Replacement Program weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, 0605833F.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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.

PE 0102110F: UH-1N Replacement Program

Air Force Page 1 of 8

UNCLASSIFIED

Date: February 2019 Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force

Appropriation/Budget Activity

R-1 Program Element (Number/Name) 3600: Research, Development, Test & Evaluation, Air Force I BA 7: PE 0102110F I UH-1N Replacement Program

Operational Systems Development

Sporational Systems Development					
B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	108.617	288.022	16.575	0.000	16.575
Current President's Budget	188.259	258.022	170.975	0.000	170.975
Total Adjustments	79.642	-30.000	154.400	0.000	154.400
 Congressional General Reductions 	0.000	0.000			
 Congressional Directed Reductions 	0.000	-30.000			
 Congressional Rescissions 	0.000	0.000			
 Congressional Adds 	0.000	0.000			
 Congressional Directed Transfers 	0.000	0.000			
 Reprogrammings 	83.458	0.000			
SBIR/STTR Transfer	-3.816	0.000			
Other Adjustments	0.000	0.000	154.400	0.000	154.400

Change Summary Explanation

FY18: \$83.458 increase for Omnibus reprogramming. \$3.816 decrease for SBIR reduction.

FY19: \$30M decrease due to a Congressional mark for "program delay".

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
Title: UH-1N Replacement	185.788	248.761	144.841
Description: Development of UH-1N Replacement 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 UH-1N Replacement operational capability requirements.			
FY 2019 Plans: Continue systems engineering efforts for NDI integration onto an airworthiness-certified aircraft to achieve operational capability requirements, including associated mission planning and training systems, and procurement of test articles. Includes government oversight of contractor design reviews toward finalizing changes from the airworthiness-certified baseline aircraft specifications. Other contractor and government systems engineering tasks include associated testing and certifications. Management services include miscellaneous program office support, travel, office supplies, and service contracts. Includes incremental funding of four aircraft for test.			
FY 2020 Plans: Continue systems engineering efforts for NDI integration onto an airworthiness-certified aircraft to achieve operational capability requirements, including associated mission planning and training systems, and procurement of test articles. Includes government oversight of contractor design reviews toward finalizing changes from the airworthiness-certified baseline aircraft specifications.			

PE 0102110F: UH-1N Replacement Program

Air Force

UNCLASSIFIED Page 2 of 8

Exhibit R-2, RDT&E Budget Item .											
	Justification:	PB 2020 Air	Force		,				Date: Fe	bruary 2019	
Appropriation/Budget Activity 3600: Research, Development, Tes Operational Systems Development		Air Force I	BA 7:			n ent (Numb I-1N Replace	er/Name) ement Progra	am			
C. Accomplishments/Planned Pro	ograms (\$ in N	fillions)		,					FY 2018	FY 2019	FY 2020
Other contractor and government sinclude miscellaneous program offical aircraft for test and two SDTA aircraft.	ystems engine ce support, tra	ering tasks i						rvices			
FY 2019 to FY 2020 Increase/Dec Funding decreased due to the com			kE aircraft (2	nd Qtr FY20).						
Title: UH-1N Replacement Governi	ment Test and	Evaluation							2.471	9.261	26.134
Description: System and subsyste	m test and eva	aluation of th	e UH-1N Re	placement s	olution.						
start Live Fire Test & Evaluation (LF NDI integration onto an airworthine: FY 2020 Plans: Continue LFT&E, DT and OA, and INDI integration onto an airworthine: FY 2019 to FY 2020 Increase/Dec. Funding increased due to phasing of	ss-certified base begin OT supp ss-certified base rease Stateme	seline aircrat ort executio seline aircrat	it system. n. Conduct to it system.		·		·				
				Accon	nplishments	s/Planned P	rograms Su	btotals	188.259	258.022	170.975
D. Other Program Funding Summ	ıary (\$ in Milli	ons)									
Line Item • APAF 04 Line Item H0106O:	FY 2018	FY 2019 0.000	FY 2020 Base 0.000	FY 2020 OCO	FY 2020 Total 0.000	FY 2021 195.400	FY 2022 270.460	FY 2023 308.159		Cost To Complete 1,672.800	Total Cos
Line Item	FY 2018 - -	FY 2019 0.000						FY 2023 308.159 17.373	406.867	Complete 1,672.800	Total Cos

PE 0102110F: *UH-1N Replacement Program* Air Force

UNCLASSIFIED
Page 3 of 8

	ONOLAGOII ILD	
Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force		Date: February 2019
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 0102110F / UH-1N Replacement Program	
E. Acquisition Strategy The Air Force intends to procure an airworthiness-certified baseline helichoists, cockpit/cabin armor, etc.) and training systems to meet all operation tasks and the test and evaluation program will be determined.	tional capability requirements. Specific acquisition and c	
F. Performance Metrics Please refer to the Performance Base Budget Overview Book for inform Force performance goals and most importantly, how they contribute to contrib		hose resources are contributing to Air

PE 0102110F: *UH-1N Replacement Program* Air Force

					UIV	ICLAS	DILIED								
Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	.020 Air F	orce								Date:	February	2019	
Appropriation/Budge 3600 / 7	t Activity	1					ogram Ele 2110F / U m				_	(Number	r/ Name) Replacem	ent Prog	ram
Product Developmer	nt (\$ in Mi	illions)		FY 2	2018	FY 2	2019		2020 ise		2020 CO	FY 2020 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	Total Cost	Target Value of Contract
UH-1N Replacement weapon system integration and type/airworthiness certification	C/FFP	Boeing : Philadelphia, PA	0.000	180.000	Sep 2018	221.572	Jan 2019	125.275	Dec 2019	-		125.275	24.544	551.391	-
		Subtotal	0.000	180.000		221.572		125.275		-		125.275	24.544	551.391	N/A
Support (\$ in Millions	s)			FY 2	2018	FY 2	2019		2020 ise	FY 2	2020 CO	FY 2020 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	Total Cost	Target Value of Contract
UH-1N Replacement other government costs and civilian pay	C/Various	Various : TBD	0.061	0.146	Jan 2018	19.115	Jan 2019	13.909	Jan 2020	-		13.909	24.615	57.846	-
		Subtotal	0.061	0.146		19.115		13.909		-		13.909	24.615	57.846	N/A
Test and Evaluation	(\$ in Milli	ons)		FY 2	2018	FY 2	2019		2020 ise	FY 2	2020 CO	FY 2020 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, developmental, and operational test and evaluation, planning and technical support	Various	Various : TBD	0.418	2.471	Jul 2018	9.261	May 2019	26.134	Dec 2019	-		26.134	16.147	54.431	-
	•	Subtotal	0.418	2.471		9.261		26.134		-		26.134	16.147	54.431	N/A

PE 0102110F: *UH-1N Replacement Program* Air Force

UNCLASSIFIED
Page 5 of 8

Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force			Date: February 2019
1	R-1 Program Element (Number/Name) PE 0102110F / UH-1N Replacement	, ,	umber/Name) IH-1N Replacement Program
	Program	0.202.70	

Management Service	es (\$ in M	illions)		FY 2	2018	FY 2	2019		2020 ase		2020 CO	FY 2020 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 Administration	Various	Various : TBD	0.675	0.315	Dec 2017	1.550	Dec 2018	0.370	Dec 2019	-		0.370	0.338	3.248	-
UH-1N Replacement A&AS Support	C/CPFF	EPASS : Dayton, OH	2.244	5.327	Mar 2018	6.524	Mar 2019	5.287	Mar 2020	-		5.287	0.000	19.382	-
		Subtotal	2.919	5.642		8.074		5.657		-		5.657	0.338	22.630	N/A
			Prior					FY:	2020	FY:	2020	FY 2020	Cost To	Total	Target Value of

	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	3.398	188.259	258.022	170.975	-	170.975	65.644	686.298	N/A

Remarks

PE 0102110F: UH-1N Replacement Program

Air Force

nibit R-4, RDT&E Schedule Profile: PB 2020 A	ir Force												Date:	_	•	2019	
oropriation/Budget Activity 0 / 7												Project (Number/Name) 672021 <i>I UH-1N Replacement Program</i>					ıram
	FY	2018		FY 201	9	FY 202	_	FY 20			2022		FY 202	_		FY 202	_
	1 2	3 4	1 1	2 3	4 1	2 3	4	1 2	3 4	1 2	3 4	1	2 3	4	1	2 3	4
UH-1N Replacement Program																	
Pre-Milestone C Review and Contract Award																	
UH-1N Replacement NDI Contract																	
Test and Evaluation																	
System/Subsystem Test and Integration																	
Weapon System Integration																	
Milestone C																	
Required Assets Available for Initial Operational Capability																	

PE 0102110F: UH-1N Replacement Program Air Force

UNCLASSIFIED Page 7 of 8

Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force			Date: February 2019
Appropriation/Budget Activity 3600 / 7	,	- 3 (umber/Name) IH-1N Replacement Program

Schedule Details

	Sta	End			
Events by Sub Project	Quarter	Year	Quarter	Year	
JH-1N Replacement Program					
Pre-Milestone C Review and Contract Award	4	2018	4	2018	
UH-1N Replacement NDI Contract	4	2018	4	2021	
Test and Evaluation	1	2019	3	2022	
System/Subsystem Test and Integration	2	2018	1	2022	
Weapon System Integration	4	2018	4	2022	
Milestone C	4	2021	4	2021	
Required Assets Available for Initial Operational Capability	4	2023	4	2023	

PE 0102110F: UH-1N Replacement Program

Air Force