Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Army Date: March 2019

Appropriation/Budget Activity R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 7: Operational PE 0607136A I Blackhawk Product Improvement Program

Systems Development

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	-	48.241	35.196	13.039	-	13.039	11.247	5.232	0.000	0.000	Continuing	Continuing
ES3: Blackhawk Product Improvement Program	-	48.241	35.196	13.039	-	13.039	11.247	5.232	0.000	0.000	Continuing	Continuing

Note

MEDEVAC:

Independent of the UH-60V Program of Record and Acquisition Program Baseline (APB), incremental RDT&E funding to support integration of a MEDEVAC capability on UH-60V is planned for FY19-22. In accordance with AR 40-60, Medical Materiel Acquisition Policy, the Army's Aeromedical Evacuation capability is funded by two portfolio managers, PEOAVN and MRMC. PEOAVN is responsible for the integration of MEDEVAC Mission Equipment Package (MEP) on the UH-60V. MRMC is responsible for recurring costs to procure kits and resource the installation of MEP kits on UH-60V MEDEVAC helicopters.

A. Mission Description and Budget Item Justification

UH-60V:

The H-60L Digital Blackhawk, now designated as UH-60V, is designed to update the existing H-60L analog architecture to a digital infrastructure enabling the upgraded aircraft to have a similar Pilot-Vehicle Interface (PVI) to the H-60M. The program will address current capability gaps and meet operational requirements by employing an evolutionary acquisition approach to leverage mature technologies that have been successfully integrated on other military aircraft. The program will reduce obsolescence and increase commonality and interoperability by installing a digital cockpit, bussing and upgrading the communication/identification suite, improving navigation guidance, and integrating Aircraft Survivability Equipment (ASE), digital moving map, and Joint Variable Message Format (JVMF) messaging. Continuing funding will provide hardware and software development, training material development, as well as developmental and operational testing.

MEDEVAC:

Beginning in FY19, RDT&E funding will support non-recurring engineering to integrate and qualify MEDEVAC MEP into the UH-60V Black Hawk helicopter. This MEDEVAC MEP integration effort is independent of the UH-60V Program of Record and Acquisition Program Baseline (APB). The Surgeon General (TSG) has a requirement for a MEDEVAC capability provided by Black Hawk helicopters that were not initially produced for MEDEVAC, but are designated to support the MEDEVAC mission. In accordance with AR 40-60 Medical Materiel Acquisition Policy, the PEOAVN is responsible for the costs associated with medical MEP integration on Black Hawk helicopters that were not initially produced for MEDEVAC, but require medical MEP modifications/upgrades to support the MEDEVAC mission. MEDEVAC MEP integration on the UH-60V will address obsolescence and reduce the logistics footprint by increasing equipment commonality across the MEDEVAC fleet and will reduce the number of Black Hawk MEDEVAC configurations. Additionally, UH-60V MEDEVAC capabilities will increase when comparing MEDEVAC MEP integration on legacy Black Hawk helicopters. Capability improvements will include simultaneous Rescue Hoist and extended range capability, enabled MEDEVAC Mission Sensor (MMS) use in Arctic conditions, UH-60V Multi-Function Display (MFD) integrated MMS video, and Multi-Function Controller Unit (MFCU) integration of MMS functions.

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

Date: March 2019

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 7: Operational

PE 0607136A I Blackhawk Product Improvement Program

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	34.416	35.240	13.039	-	13.039
Current President's Budget	48.241	35.196	13.039	-	13.039
Total Adjustments	13.825	-0.044	0.000	-	0.000
 Congressional General Reductions 	-0.028	-0.044			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	15.200	-			
SBIR/STTR Transfer	-1.347	-			

Change Summary Explanation

FY 2019 Funding added for MEDEVAC MEP RDT&E.

The \$1.334M cut (FY19) is for SBIR / STTR (Small Business Innovation Research/Small Business Tech Transfer) and FFRDC (Federally Funded Research and Development Centers).

Exhibit R-2A, RDT&E Project Ju		Date: March 2019												
Appropriation/Budget Activity 2040 / 7						PE 0607136A I Blackhawk Product ES3					Project (Number/Name) S3 I Blackhawk Product Improvement Program			
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		
ES3: Blackhawk Product Improvement Program	-	48.241	35.196	13.039	-	13.039	11.247	5.232	0.000	0.000	Continuing	Continuing		
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-				

Note

MEDEVAC:

Independent of the UH-60V Program of Record and Acquisition Program Baseline (APB), incremental RDT&E funding to support integration of a MEDEVAC capability on UH-60V is planned for FY19-22. In accordance with AR 40-60, Medical Materiel Acquisition Policy, the Army's Aeromedical Evacuation capability is funded by two portfolio managers, PEOAVN and MRMC. PEOAVN is responsible for the integration of MEDEVAC Mission Equipment Package (MEP) on the UH-60V. MRMC is responsible for recurring costs to procure kits and resource the installation of MEP kits on UH-60V MEDEVAC helicopters.

A. Mission Description and Budget Item Justification

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UNCLASSIFIED
Page 3 of 12

	UNCLASSIFIED					
Exhibit R-2A, RDT&E Project Justification: PB 2020 Army			Date: March 2019			
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/ PE 0607136A / Blackhawk Produ Improvement Program		Project (N ES3 / Black Program	əment		
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	
Title: Product Development		36.200	8.486	1.253	-	1.25
Description: The UH-60V program provides an integrated digital map, into common functionality and commonality of training with UH-60M. Product Digital related to Hardware and Software development, Prototype Manufacturing and Production Engineering and Planning for the UH60V program. Example drawing development, work instruction development, prototype builds, Pre Design Review (CDR), Software Engineering Directorate (SED) Simulation Software Development (aircraft and off aircraft), trainers, and training materials.	Development includes all activities (3 units), Training Equipment, Data, obles of specific activities include liminary Design Review (PDR)/Critical In Integration Laboratory (SIL) design,					
FY 2019 Plans: Continued 60V EMD efforts including hardware development, Flight Test S support of 60V development.	Software Build 2, and PIF labor in					
FY 2020 Base Plans: Continued 60V EMD efforts including hardware development and PIF labo	r in support of 60V development.					
FY 2019 to FY 2020 Increase/Decrease Statement: UH-60V EMD contract ends in 2020.						
Title: Support		3.445	3.348	1.423	-	1.42
Description: Support Costs include Systems Engineering/Program Managerformed at the Prototype Integration Facility (PIF). This includes Army Efor propulsion, structures, aeromechanics, mission equipment, as well as F	Engineering Directorate (AED) support					
FY 2019 Plans: Continue AED support for propulsion, structures, aeromechanics, mission Worthiness Release (AWR), as well as PIF program management.	equipment, SED SIL Support, Air					
FY 2020 Base Plans: Continue AED support for propulsion, structures, aeromechanics, mission Worthiness Release (AWR), and Logistics Demonstration as well as PIF p						
FY 2019 to FY 2020 Increase/Decrease Statement: Transitioning to production.						
Title: Management Services		2.598	1.145	0.755	-	0.75

UNCLASSIFIED

Army Page 4 of 12 R-1 Line #211

PE 0607136A: Blackhawk Product Improvement Program

Exhibit R-2A, RDT&E Project Justification: PB 2020 Army				Date: Marc	h 2019			
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Numbe PE 0607136A I Blackhawk Prod Improvement Program							
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total			
Description: Management Services includes all activities related the cost of Government and Contractor personnel supporting the U								
FY 2019 Plans: Continue core and contractor (SEPM) activities in support of UH-6	0V.							
FY 2020 Base Plans: Continue core and contractor (SEPM) activities in support of UH-6	0V.							
FY 2019 to FY 2020 Increase/Decrease Statement: Transitioning to production.								
Title: Test & Evaluation		5.998	4.475	1.677	-	1.67		
Description: The Utility Helicopters Project Office (UHPO) is respactivities to include execution of all developmental tests and support Program. The focal point for test management is the UH-60V Test UH-60V Test and Evaluation (T&E) Working-level Integrated Prodintegration and coordination of test and data requirements among acquisition of the UH-60V effort. T&E activities include: AFTD Bas and Evaluation (IOTE), Cybersecurity and Interoperability tests.	ort of operational tests for the UH-60V Lead Engineer who is the chair for the uct Team. The UH-60 T&E team ensures all agencies involved in the test and							
FY 2019 Plans: ATEC Initial Operational Testing and Evaluation (IOT&E).								
FY 2020 Base Plans: EMV (Electromagnetic Vulnerability) testing and evaluation.								
FY 2019 to FY 2020 Increase/Decrease Statement: IT&E testing was conducted in FY19. EMV testing is less expensive	re.							
Title: MEDEVAC MEP Integration Product Development		-	13.947	5.457	-	5.45		
Description: MEDEVAC MEP Integration Product Development.								
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PE 0607136A: *Blackhawk Product Improvement Program* Army

Exhibit R-2A, RDT&E Project Justification: PB 2020 Army			Date: March 2019				
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/ PE 0607136A I Blackhawk Produ Improvement Program		Project (Number/Name) ES3 I Blackhawk Product Improveme Program				
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total		
Develop Contract with PIF Contractor to perform Hardware (HW) design an H-60V MEDEVAC MEP Integration effort.	d Software (SW) Design activities for						
FY 2020 Base Plans: Continue executing contract with PIF Contractor to perform Hardware (HW) activities for H-60V MEDEVAC MEP Integration effort.	design and Software (SW) Design						
FY 2019 to FY 2020 Increase/Decrease Statement: FY19 activities include intensive systems engineering efforts immediately a engineering to successfully conduct the Preliminary Design Review (PDR). the engineering activities leading up to Critical Design Review (CDR) will or requirement for product development is greater in FY19.	Because the preponderance of						
Title: MEDEVAC MEP Integration Support		-	0.592	0.592	-	0.59	
Description: Support the HW and SW Design Activities with Airworthiness	and Technical data division support.						
FY 2019 Plans: Support the HW and SW Design Activities with Airworthiness and Technica	l data division support.						
FY 2020 Base Plans: Support the HW and SW Design Activities with Airworthiness and Technica	l data division support.						
Title: MEDEVAC MEP Management Services		-	1.913	1.882	_	1.88	
Description: Management Services includes all activities related to Govern the cost of Government and Contractor personnel supporting the H-60V ME							
FY 2019 Plans: Provide Management Services with Government / Contractor System Engi (SEPM) to include the cost of the Government and contractor personnel su Integration Program.							
FY 2020 Base Plans:						1	

UNCLASSIFIED

PE 0607136A: Blackhawk Product Improvement Program Page 6 of 12 R-1 Line #211 Army

Exhibit R-2A, RDT&E Project Justification: PB 2020 Army		Date: March 2019					
2040 / 7	R-1 Program Element (Number/Nar PE 0607136A I Blackhawk Product Improvement Program					ement	
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total		
Provide Management Services with Government / Contractor System Engineer (SEPM) to include the cost of the Government and contractor personnel support Integration Program.							
FY 2019 to FY 2020 Increase/Decrease Statement: FY19 activities include intensive systems engineering efforts immediately after confineering to successfully conduct the Preliminary Design Review (PDR). Becaute engineering activities leading up to Critical Design Review (CDR) will occur requirement for contractor support is greater in FY19.	cause the preponderance of						
Title: FY 2019 SBIR / STTR Transfer		-	1.290	-	-	-	
Description: FY 2019 SBIR / STTR Transfer							
FY 2019 Plans: FY 2019 SBIR / STTR Transfer							
FY 2019 to FY 2020 Increase/Decrease Statement: FY 2019 SBIR / STTR Transfer							

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

PE 0607136A: Blackhawk Product Improvement Program

	•	•	FY 2020	FY 2020	FY 2020					Cost To	
<u>Line Item</u>	FY 2018	FY 2019	Base	OCO	<u>Total</u>	FY 2021	FY 2022	FY 2023	FY 2024	Complete	Total Cost
 A05009: UH-60 Black 	76.516	148.138	169.290	-	169.290	172.969	173.634	174.656	153.267	0.000	1,068.470
Hawk L and V Models											
MN1000: Combat Support Medical	95.533	102.765	68.225	2.735	70.960	36.564	42.674	33.691	29.750	0.000	411.937

Remarks

MN1000, MEDEVAC Mission Equipment Package (MEP) provides procurement funding for MEDEVAC MEP capability on UH-60 helicopters. Starting in FY22, MN1000 will resource procurement of MEDEVAC MEP kits and installations at a rate of 15 aircraft per year through FY34, which is the estimated year the AAO of 200 UH-60V MEDEVAC is reached. Figures shown above reflect the full MN1000 - OPA3/MN1000/Combat Support Medical funding line, which includes the production kits and MEP installation costs at CCAD. UH-60V MEDEVAC MEP MN1000 OPA requirements are \$5.7M in FY22, \$6.1M in FY23, and \$6.1M in FY24. Total MEDEVAC MEP requirement in MN1000 through FY34 is \$88.1M.

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Army	Date: March 2019		
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607136A I Blackhawk Product Improvement Program	- , (umber/Name) khawk Product Improvement

D. Acquisition Strategy

The UH-60V program plans to leverage the Prototype Integration Facility (PIF), a Government Owned Government Operated (GOGO) facility, to design, integrate and build three production representative aircraft. The GOGO facility uses a cost plus contract vehicle and conducted full and open competition for the selection of the avionics solution provider.

Independent of the UH-60V Program of Record and Acquisition Program Baseline (APB), the MEDEVAC MEP program plans to utilize the U. S. Army Aviation and Missile Research Development and Engineering Center (AMRDEC) Prototype Integration Facility (PIF) to design and integrate MEDEVAC capability into the UH-60V. By leveraging the same Government Owned/Government Operated (GOGO) facility utilized by the UH-60V program, efficient design, software development, integration, and testing will occur by eliminating redundant tasks and employing experienced government resources already in possession of pertinent UH-60V technical data required to support the MEDEVAC MEP non-recurring engineering (NRE) effort. Prototype, validation, and verification of technical publications, as well as airworthiness testing will be accomplished following completion of the UH-60V IOT&E, at which time up to two UH-60V EDM aircraft will be allocated to the MEDEVAC MEP program. Following completion of MEDEVAC MEP NRE, technical products will feed production and fielding contracts, which will be resourced by MEDCOM. Procurement funding is programmed on MN1000 Combat Support Medical, G13010 MEDEVAC MEP.

E. Performance Metrics

N/A

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	.020 Army	/								Date:	March 20	019	
Appropriation/Budge 2040 / 7	ppropriation/Budget Activity 040 / 7						R-1 Program Element (Number/Name) PE 0607136A I Blackhawk Product Improvement Program Project (ES3 I Blackname) Project (Project (ES3 I Blackname)						•	Improvem	nent
Management Service	es (\$ in M	illions)		FY 2	FY 2018		FY 2019		FY 2020 Base		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-60V - Organic	MIPR	Various : Redstone Arsenal, AL	10.352	1.096	Oct 2017	0.483	Oct 2018	0.305	Oct 2019	-		0.305	Continuing	Continuing	-
UH-60V - Contractor	C/LH	Various : Redstone Arsenal, AL	7.483	1.502	Oct 2017	0.662	Oct 2018	0.450	Oct 2019	-		0.450	Continuing	Continuing	-
MEDEVAC MEP Integration - Organic	MIPR	Various : Redstone Arsenal	-	-		1.015	Oct 2018	1.045	Oct 2019	-		1.045	Continuing	Continuing	-
MEDEVAC MEP Integration - Contractor	C/LH	Various : Redstone Arsenal, AL	-	-		0.898	Oct 2018	0.837	Oct 2019	-		0.837	Continuing	Continuing	-
		Subtotal	17.835	2.598		3.058		2.637		-		2.637	Continuing	Continuing	N/A
Product Developme	nt (\$ in M	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-60V Development Engineering	C/CPFF	AMRDEC PIF : Redstone Arsenal, AL	124.591	36.200	Oct 2017	8.486	Oct 2018	1.253	Oct 2019	-		1.253	Continuing	Continuing	-
MEDEVAC MEP Product Development and Integration	C/CPFF	AMRDEC PIF : Redstone Arsenal AL	-	-		13.947	Oct 2018	5.457	Oct 2019	-		5.457	Continuing	Continuing	-
FY 2019 SBIR / STTR Transfer	TBD	HDQA : HDQA	-	-		1.290		-		-		-	0.000	1.290	-
		Subtotal	124.591	36.200		23.723		6.710		-		6.710	Continuing	Continuing	N/A
Support (\$ in Million	ıs)			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-60V	MIPR	Various : Redstone Arsenal, AL	9.340	3.445	Oct 2017	3.348	Oct 2018	1.423	Oct 2019	-		1.423	Continuing	Continuing	-
MEDEVAC MEP Integration Support	MIPR	Various : Redstone Arsenal AL	-	-		0.592	Oct 2018	0.592	Oct 2019	-		0.592	Continuing	Continuing	-

PE 0607136A: *Blackhawk Product Improvement Program* Army

UNCLASSIFIED

Page 9 of 12 R-1 Line #211

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2020 Army	/								Date:	March 20)19	
Appropriation/Budg 2040 / 7	jet Activity	/				R-1 Program Element (Number/Name) PE 0607136A I Blackhawk Product Improvement Program						Project (Number/Name) ES3 / Blackhawk Product Improvement Program			
Support (\$ in Million	ns)			FY 2018		FY 2019		FY 2020 Base			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
		Subtotal	9.340	3.445		3.940		2.015		-		-	Continuing		
Test and Evaluation (\$ in Millions)			FY 2018		FY 2	019	FY 2020 Base			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-60V	MIPR	Redstone Test Center : Redstone Arsenal, AL	5.617	5.998	Oct 2017	4.475	Oct 2018	1.677	Oct 2019	-		1.677	Continuing	Continuing	-
		Subtotal	5.617	5.998		4.475		1.677		-		1.677	Continuing	Continuing	N/A
Remarks Government Support			Prior Years	FY 2	2018	FY 2	2019		2020 ase		2020 CO	FY 2020 Total	Cost To	Total Cost	Target Value of Contract
		Project Cost Totals	157.383	48.241		35.196		13.039		-		13.039	Continuing	Continuing	N/A
<u>Remarks</u>															

PE 0607136A: *Blackhawk Product Improvement Program* Army

Exhibit R-4, RDT&E Schedule Profile: PB 2020 Army

Date: March 2019

Appropriation/Budget Activity

2040 *l* 7

R-1 Program Element (Number/Name)
PE 0607136A I Blackhawk Product

Improvement Program

Project (Number/Name)

ES3 I Blackhawk Product Improvement

Program

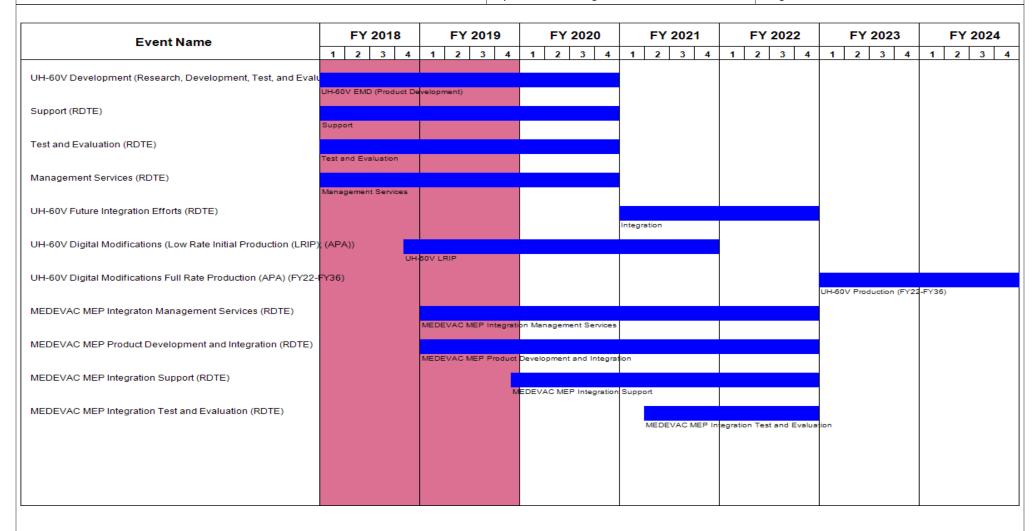


Exhibit R-4A, RDT&E Schedule Details: PB 2020 Army	Dat	e: March 2019	
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607136A I Blackhawk Product Improvement Program	Project (Numb ES3 / Blackhav Program	oer/Name) wk Product Improvement

Schedule Details

	Start		End	
Events	Quarter	Year	Quarter	Year
UH-60V Development (Research, Development, Test, and Evaluation (RDTE)	4	2014	4	2020
Support (RDTE)	1	2014	4	2020
Test and Evaluation (RDTE)	4	2015	4	2020
Management Services (RDTE)	1	2014	4	2020
UH-60V Future Integration Efforts (RDTE)	1	2021	4	2022
UH-60V Digital Modifications (Low Rate Initial Production (LRIP); (APA))	4	2018	4	2021
UH-60V Digital Modifications Full Rate Production (APA) (FY22-FY36)	1	2023	4	2036
MEDEVAC MEP Integraton Management Services (RDTE)	1	2019	4	2022
MEDEVAC MEP Product Development and Integration (RDTE)	1	2019	4	2022
MEDEVAC MEP Integration Support (RDTE)	4	2019	4	2022
MEDEVAC MEP Integration Test and Evaluation (RDTE)	2	2021	4	2022