

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
2040: <i>Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development</i>					PE 0607136A / <i>Blackhawk Product Improvement Program</i>							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	-	48.446	66.653	-	66.653	50.153	34.777	18.459	5.829	-	224.317
ES3: <i>Blackhawk Product Improvement Program</i>	-	-	48.446	66.653	-	66.653	50.153	34.777	18.459	5.829	-	224.317

A. Mission Description and Budget Item Justification

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016 Base</u>	<u>FY 2016 OCO</u>	<u>FY 2016 Total</u>
Previous President's Budget	-	-	-	-	-
Current President's Budget	-	48.446	66.653	-	66.653
Total Adjustments	-	48.446	66.653	-	66.653
• Congressional General Reductions	-	-	-	-	-
• Congressional Directed Reductions	-	-	-	-	-
• Congressional Rescissions	-	-	-	-	-
• Congressional Adds	-	-	-	-	-
• Congressional Directed Transfers	-	-	-	-	-
• Reprogrammings	-	-	-	-	-
• SBIR/STTR Transfer	-	-	-	-	-
• Adjustments to Budget Years	-	48.446	66.653	-	66.653

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2016 Army										Date: February 2015		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0607136A / <i>Blackhawk Product Improvement Program</i>				Project (Number/Name) ES3 / <i>Blackhawk Product Improvement Program</i>			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
ES3: <i>Blackhawk Product Improvement Program</i>	-	-	48.446	66.653	-	66.653	50.153	34.777	18.459	5.829	-	224.317
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Not applicable for this item.

A. Mission Description and Budget Item Justification

The H-60L Digital BLACK HAWK, 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 (JVFM) messaging.

FY 2016 UH-60V funds hardware and software development as well as prototype support. Tasks include build of aircraft 1 and 2, Bench Test Facility Assembly, and developmental testing.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2014	FY 2015	FY 2016
Title: UH-60V	-	48.446	66.653
Description: The UH-60V program provides an integrated digital map, integrated performance planning, common functionality and commonality of training with UH-60M			
FY 2015 Plans: Begin UH-60V cockpit digitization effort, an upgrade program to digitize UH-60V with integrated digital map, performance planning, common Pilot Vehicle Interface (PVI) with UH-60M.			
FY 2016 Plans: Continue UH-60V cockpit digitization effort.			
Accomplishments/Planned Programs Subtotals	-	48.446	66.653

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607136A / <i>Blackhawk Product Improvement Program</i>	Project (Number/Name) ES3 / <i>Blackhawk Product Improvement Program</i>

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

<u>Line Item</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2016</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Cost To</u>	
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	<u>Total Cost</u>
• UH-60 A and L Models A05009: <i>UH-60 Black Hawk A and L Models A05009</i>	-	-	46.641	-	46.641	46.588	75.714	168.304	210.832	-	548.079

Remarks

A05009 UH-60 Black Hawk A and L Models provides procurement funding for UH-60V conversions starting in FY2018.

D. Acquisition Strategy

The UH-60V program plans to leverage a Government-owned Government-operated (GOGO) facility to design, integrate and build 3 production representative aircraft. (2 more aircraft will be built at Corpus Christi Army Depot (CCAD).) The GOGO facility uses a cost plus contract vehicle and will conduct full and open competition for the selection of the avionics solution provider.

E. Performance Metrics

N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army												Date: February 2015				
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)								
2040 / 7				PE 0607136A / Blackhawk Product Improvement Program				ES3 / Blackhawk Product Improvement Program								
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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 - Organic	TBD	Various : Various	0.000	-		3.603	Oct 2014	3.827	Oct 2015	-		3.827	-	7.430	-	
UH-60V - Contractor	TBD	Various : Various	0.000	-		2.573	Oct 2014	2.622	Oct 2015	-		2.622	-	5.195	-	
Subtotal			0.000	-		6.176		6.449		-		6.449	-	12.625	-	
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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 Development Engineering	C/CPFF	AMRDEC PIF : Redstone Arsenal, AL	0.000	-		39.002	Mar 2015	54.777	Mar 2016	-		54.777	-	93.779	-	
Subtotal			0.000	-		39.002		54.777		-		54.777	-	93.779	-	
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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	Various	Huntsville, AL : Huntsville, AL	0.000	-		3.168	Oct 2014	3.511	Oct 2015	-		3.511	-	6.679	-	
Subtotal			0.000	-		3.168		3.511		-		3.511	-	6.679	-	
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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	TBD	Redstone Test Center : Redstone Arsenal	0.000	-		0.100	Oct 2014	1.916	Oct 2015	-		1.916	-	2.016	-	
Subtotal			0.000	-		0.100		1.916		-		1.916	-	2.016	-	

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army								Date: February 2015					
Appropriation/Budget Activity 2040 / 7				R-1 Program Element (Number/Name) PE 0607136A / <i>Blackhawk Product Improvement Program</i>				Project (Number/Name) ES3 / <i>Blackhawk Product Improvement Program</i>					
	Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	-		48.446		66.653		-		66.653	-	115.099	-

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607136A / <i>Blackhawk Product Improvement Program</i>	Project (Number/Name) ES3 / <i>Blackhawk Product Improvement Program</i>
--	--	--

Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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
UH-60V Development					UH-60V EMD																							
UH-60V (Trainers/Manuals Development) RDTE					Trainers/Manuals																							
UH-60V Digital Modifications (LRIP) APA					UH-60V LRIP																							

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army		Date: February 2015
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607136A / <i>Blackhawk Product Improvement Program</i>	Project (Number/Name) ES3 / <i>Blackhawk Product Improvement Program</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
UH-60V Development	4	2014	3	2018
UH-60V (Trainers/Manuals Development) RDTE	3	2018	4	2020
UH-60V Digital Modifications (LRIP) APA	3	2018	4	2019