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

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 5: System

Army I BA 5: System PE 0604220A I Armed, Deployable Helos

Development & Demonstration (SDD)

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	-	26.000	-	-	-	-	-	-	-	-	-	26.000
538: Kiowa Warrior	-	26.000	-	-	-	-	-	-	-	-	-	26.000
53Z: Armed Scout Helicopter	-	-	-	-	-	-	-	-	-	-	-	-

Note

Change Summary Explanation:

No FY2015 or beyond funds requested.

PE 0604220A: Armed, Deployable Helos

A. Mission Description and Budget Item Justification

The Army and OSD have coordinated a funding position removing RDTE funding from the Kiowa Warrior (538) in FY15 and beyond. ASH PM planned FY14 requirements for Kiowa Warrior (538) within the RDTE funds received of \$25.999M. The FY14 funding incorporates required design improvements to the Single Channel FADEC Upgrade Electronic Control Unit (SCFU ECU) to improve safety and reliability of the OH-58D engine fuel control. The funding also provides for the support of termination efforts of the OH-58F Kiowa Warrior Cockpit and Sensor Upgrade Program (CASUP).

No funding was received in FY14 for Armed Scout Helicopter Program (53Z).

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	69.807	-	-	-	-
Current President's Budget	26.000	-	-	-	-
Total Adjustments	-43.807	-	-	-	-
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-	-			
Other Adjustments 3	-43.807	-	-	-	-

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Exhibit R-2A, RDT&E Project Ju	ıstification	: PB 2016 A	rmy							Date: Feb	ruary 2015	
Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name) PE 0604220A / Armed, Deployable Helos 538 / Kiowa						Number/Name) va Warrior				
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
538: Kiowa Warrior	-	26.000	-	-	-	-	-	-	-	-	-	26.000
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The OH-58D Kiowa Warrior (KW) is a two-seat, single-engine, observation, scout/attack helicopter with four main rotor blades. It utilizes a thermal-imaging system and a laser rangefinder/designator in a Mast Mounted Sight (MMS) situated above the main rotor system. The aircraft is equipped with a variety of weapon systems including: HELLFIRE, 2.75-inch rockets, and a .50-caliber machine gun. The aircraft operates autonomously at standoff ranges providing armed reconnaissance, command and control, and target acquisition/designation for Apache helicopters and other airborne weapons platforms in day, night, and adverse-weather conditions. Sensor imagery from compatible Unmanned Aerial Systems (UAS) and manned aircraft can be received and relayed to other aircraft or ground stations. The Active Army and the National Guard fly Kiowa Warriors.

The Army and OSD have coordinated a funding position removing RDTE funding from the Kiowa Warrior (538) in FY15 and beyond. ASH PM planned FY14 requirements within the RDTE funds received of \$25.999M. The FY14 funding incorporates required design improvements to the Single Channel FADEC Upgrade Electronic Control Unit (SCFU ECU) and related products to improve safety and reliability of the OH-58D engine fuel control and component qualifiaction of the Dual Channel FADEC. The funding also provides for the support of termination efforts of the OH-58F Kiowa Warrior Cockpit and Sensor Upgrade Program (CASUP).

D. Accomplishments/Dispused Dysgreyme (f. in Millians)	EV 004.4	EV 004E	EV 0040
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Title: Development and Integration	1.500	-	-
Description: Development and Integration Efforts			
FY 2014 Accomplishments:			
Development and Integration Efforts			
Title: Engineering Support Activities	0.300	-	-
Description: Engineering Support Activities			
FY 2014 Accomplishments:			
Engineering Support Activities			
Title: Test and Evaluation	1.049	-	-
Description: Test and Evaluation			
FY 2014 Accomplishments:			
	'	'	

PE 0604220A: Armed, Deployable Helos

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: February 2015
1	` ,	Project (N 538 / Kiow	umber/Name) a Warrior

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Test and Evaluation Efforts to qualify components of the Dual Channel FADEC.			
Title: Program Management	23.151	-	-
Description: Program Management			
FY 2014 Accomplishments: Program Management for termination of CASUP			
Accomplishments/Planned Programs Subtotals	26.000	-	-

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

			FY 2016	FY 2016	FY 2016					Cost To	
<u>Line Item</u>	FY 2014	FY 2015	Base	OCO	<u>Total</u>	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total Cost
• (AZ2200): Kiowa Warrior (AZ2200)	108.282	-	_	-	-	-	-	_	-	-	108.282

Remarks

The Army and OSD have coordinated a funding position removing APA funding from the Kiowa Warrior (AZ2200) in FY15 and beyond.

Received \$25.0M of APA funding in FY14 AZ2200.

No APA/OCO funds were received in FY14 for A02345.

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

PE 0604220A: *Armed, Deployable Helos* Army

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

Project (Number/Name)

2040 / 5 PE 0604220A / Armed, Deployable Helos 538 / Kiowa Warrior

Management Service	es (\$ in M	illions)		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
Program Management	Various	Various Activities : Various Activities	28.430	23.151	Jan 2014	-		-		-		-	-	51.581	-
		Subtotal	28.430	23.151		-		-		-		-	-	51.581	-

Remarks

Funding will provide Armed Scout Helicopter (ASH) Government and contractor Program Management, Engineering, and Logistical support. Funding provides for Program Management activities associated with terminating program. All other KW CASUP program activities were terminated through guidance issued by the Acquisition Decision Memorandum (ADM) in March 2014.

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
Development and Integration	Various	Various Activities : Honeywell Inc. /Rolls Royce/Triumph	266.033	1.500	Mar 2015	-		-		-		-	-	267.533	-
		Subtotal	266.033	1.500		-		_		-		-	-	267.533	-

Remarks

Army

Funding will provide both contractor and in-house development and integration efforts. Development and Integration activities will be performed by Honeywell Inc, Rolls Royce, and Triumph. KW CASUP program activities were terminated through guidance issued by the Acquisition Decision Memorandum (ADM) in March 2014.

Support (\$ in Million	Support (\$ in Millions)					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
Engineering Support Activities	Various	Various Activities : AMRDEC, AED & SED	52.345	0.300	Mar 2014	-		-		-		-	-	52.645	-
		Subtotal	52.345	0.300		-		-		-		-	-	52.645	-

PE 0604220A: Armed, Deployable Helos

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army			Date: February 2015
	R-1 Program Element (Number/Name) PE 0604220A / Armed, Deployable Helos	Project (N 538 / Kiow	umber/Name) a Warrior
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Support (\$ in Million	s)			FY	2014	FY 2	2015		2016 ase	FY 2	2016 CO	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

Remarks

Funding will provide engineering support activities performed by Aviation and Missile Research and Development Center (AMRDEC), Aviation Engineering Directorate (AED) and Software Engineering Directorate (SED). KW CASUP program activities were terminated through guidance issued by the Acquisition Decision Memorandum (ADM) in March 2014.

Test and Evaluation	(\$ in Milli	ons)		FY 2	2014	FY 2	2015		2016 ase	FY 2		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	Total Cost	Target Value of Contract
Test and Evaluation	Various	Various Activities : RTC, AATD, DTC, OTC	14.384	1.049	Feb 2015	-		-		-		-	-	15.433	-
		Subtotal	14.384	1.049		-		-		-		-	-	15.433	-

Remarks

Funding will provide test and evaluation activities conducted by Redstone Test Center (RTC), Aviation Applied Technology Directorate (AATD), Developmental Test Command (DTC), and Operational Test Command (OTC). KW CASUP program activities were terminated through guidance issued by the Acquisition Decision Memorandum (ADM) in March 2014.

									Target
	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Value of Contract
Project Cost Totals	361.192	26.000	-	-	-	-	-	387.192	-

Remarks

PE 0604220A: Armed, Deployable Helos Army

Exhibit R-4, RDT&E Schedule Profile: PB 2016 A	Army				Date: February	2015								
Appropriation/Budget Activity 2040 / 5		R-1 Program PE 0604220	n Element (Nur A / Armed, Dep	nber/Name) loyable Helos	Project (Number/Name) 538 / Kiowa Warrior									
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								
Contract in Termination		N/A												

PE 0604220A: *Armed, Deployable Helos* Army

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army			Date: February 2015
11 1	,	, ,	umber/Name)
2040 / 5	PE 0604220A I Armed, Deployable Helos	538 <i>I Kiow</i>	a Warrior

Schedule Details

	St	art	End			
Events	Quarter	Year	Quarter	Year		
Contract in Termination	3	2014	4	2015		

Exhibit R-2A, RDT&E Project J	ustification	: PB 2016 <i>A</i>	Army							Date: Feb	ruary 2015			
Appropriation/Budget Activity 2040 / 5					R-1 Progra PE 060422									
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		
53Z: Armed Scout Helicopter	-	-	-	-	-	-	-	-	-	-	-	-		
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-				

A. Mission Description and Budget Item Justification

The mission of the Kiowa Warrior replacement aircraft is to provide a robust reconnaissance and security capability for the Joint Combined arms air-ground maneuver team. It will be a direct replacement for the aging OH-58D/F Kiowa Warrior fleet.

The aircraft will provide a highly deployable, reconnaissance and security capability that will employ immediately upon arrival into theater. The platform will address the capability gaps of interoperability, survivability, agility, lethality, and sustainability to ensure interoperability over extended ranges. The platform enhances mission effectiveness throughout the operational environment, and focuses on system survivability against threats operating in the contemporary operational environment, while reducing the logistical burden on the tactical unit. The fundamental purpose is to perform reconnaissance and to provide security in combat operations. In doing so, it improves the commander's ability to maneuver and concentrate superior combat power against the enemy at the decisive time and place.

No funding was appropriated in the FY14 budget for Armed Scout Helicopter (53Z).

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

N/A

N/A

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

- .

Remarks

D. Acquisition Strategy

Not applicable for this item.

E. Performance Metrics

N/A

Army

PE 0604220A: Armed, Deployable Helos

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2016 Army	/								Date:	February	2015	
Appropriation/Budg 2040 / 5	et Activity	/				R-1 Program Element (Number/Name) PE 0604220A I Armed, Deployable Helos Project (Number/Name) 53Z I Armed Scout Helicopter									
Product Development (\$ in Millions)				FY	2014	FY 2015			2016 ase		2016 CO	FY 2016 Total			
Cost Category Item	Contract Method Performing Category Item & Type 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
Voluntary Flight Demonstration	Various	Various : Various	7.940	-		-		-		-		-	-	7.940	-
		Subtotal	7.940	-		-		-		-		-	-	7.940	-
Support (\$ in Million	ns)			FY 2	2014	FY:	2015		2016 ase		2016 CO	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
AAS AoA and Milestone Support/Risk Reduction	Various	Various : Various	13.892	-		-		-		-		-	-	13.892	-
		Subtotal	13.892	-		-		-		-		-	-	13.892	-
	Prior Years		-	FY 2014		FY 2015			2016 ase		2016 CO	FY 2016 Total	Cost To	Total Cost	Target Value of Contract
		Project Cost Totals	21.832	-		-		-		-		-	-	21.832	-

Remarks

PE 0604220A: *Armed, Deployable Helos* Army

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xhibit R-4, RDT&E Schedule Profile: PB 201	6 Army																	υa	ite:	: Fe	ebru	ary 2	2015			
Appropriation/Budget Activity 040 / 5		R-1 Program Element (Number/Name) PE 0604220A I Armed, Deployable Helos													Project (Number/Name) 53Z I Armed Scout Helicopter											
Event Name		FY 2014											FY 2018 FY 2019 F							FY 2020						
	1	2 3 4	_		3 4	1			4	1	2	3		1	2		3	4	1					2	3	
REQUIREMENT DEVELOPMENT												I	ı					\dashv								_
	Require	ment Develop	ment																							
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PE 0604220A: *Armed, Deployable Helos* Army

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army			Date: February 2015
11	,	· ·	umber/Name)
2040 / 5	PE 0604220A I Armed, Deployable Helos	53Z I Arme	ed Scout Helicopter

Schedule Details

	St	art	End				
Events	Quarter	Year	Quarter	Year			
REQUIREMENT DEVELOPMENT	1	2014	4	2014			