

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army										Date: February 2015		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604220A I Armed, Deployable Helos							
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.

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)	<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	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	-	-	-	-

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2016 Army										Date: February 2015		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604220A / Armed, Deployable Helos				Project (Number/Name) 538 / Kiowa 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 qualification 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).

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:			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2016 Army							Date: February 2015				
Appropriation/Budget Activity 2040 / 5			R-1 Program Element (Number/Name) PE 0604220A / <i>Armed, Deployable Helos</i>			Project (Number/Name) 538 / <i>Kiowa Warrior</i>					
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)											
Line Item	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
• (AZ2200): <i>Kiowa Warrior (AZ2200)</i>	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											

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604220A / <i>Armed, Deployable Helos</i>	Project (Number/Name) 538 / <i>Kiowa Warrior</i>
--	--	--

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
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

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 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
Engineering Support Activities	Various	Various Activities : AMRDEC, AED & SED	52.345	0.300	Mar 2014	-		-		-		-	-	52.645	-
Subtotal			52.345	0.300		-		-		-		-	-	52.645	-

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army													Date: February 2015		
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0604220A / <i>Armed, Deployable Helos</i>				Project (Number/Name) 538 / <i>Kiowa Warrior</i>					
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
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 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
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.															
			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			361.192	26.000		-		-		-		-	-	387.192	-
Remarks															

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army																								Date: February 2015															
Appropriation/Budget Activity 2040 / 5												R-1 Program Element (Number/Name) PE 0604220A / Armed, Deployable 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																							

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army		Date: February 2015
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604220A / Armed, Deployable Helos	Project (Number/Name) 538 / Kiowa Warrior

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Contract in Termination	3	2014	4	2015

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2016 Army										Date: February 2015		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604220A / Armed, Deployable Helos				Project (Number/Name) 53Z / Armed Scout Helicopter			
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, versatility, 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

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

N/A

Remarks

D. Acquisition Strategy

Not applicable for this item.

E. Performance Metrics

N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army													Date: February 2015		
Appropriation/Budget Activity 2040 / 5							R-1 Program Element (Number/Name) PE 0604220A / <i>Armed, Deployable Helos</i>				Project (Number/Name) 53Z / <i>Armed Scout Helicopter</i>				

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
Voluntary Flight Demonstration	Various	Various : Various	7.940	-		-		-		-		-	-	7.940	-
Subtotal			7.940	-		-		-		-		-	-	7.940	-

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
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		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			21.832	-		-		-		-		-	-	21.832	-

Remarks

UNCLASSIFIED

PE 0604220A: *Armed, Deployable Helos*
Army

R-1 Line #77

[illegible]

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army		Date: February 2015
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604220A / Armed, Deployable Helos	Project (Number/Name) 53Z / Armed Scout Helicopter

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
REQUIREMENT DEVELOPMENT	1	2014	4	2014