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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Army										Date: March 2014		
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 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	80.934	69.807	-	-	-	-	-	-	-	Continuing	Continuing
538: Kiowa Warrior	-	76.067	66.343	-	-	-	-	-	-	-	Continuing	Continuing
53Z: Armed Scout Helicopter	-	4.867	3.464	-	-	-	-	-	-	-	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

Note

Change Summary Explanation:
No FY15 funds requested.

A. Mission Description and Budget Item Justification

The Project 538 funding line develops, integrates and tests modifications which will allow the Kiowa Warrior (KW) to continue to safely serve as the Army's armed reconnaissance aviation capability until replaced/retired. An ACAT II program, OH-58F KW Cockpit and Sensor Upgrade Program (CASUP), was established to address capability shortfalls, obsolescence, and safety issues with the current fielded fleet and is required through 2025 and beyond. KW CASUP current program baseline is not the alternative solution to meet the Armed Scout Helicopter (Project 53Z) capability.

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	90.494	73.309	38.727	-	38.727
Current President's Budget	80.934	69.807	-	-	-
Total Adjustments	-9.560	-3.502	-38.727	-	-38.727
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-3.502			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments 3	-9.560	-	-38.727	-	-38.727

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
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 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
538: Kiowa Warrior	-	76.067	66.343	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
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.												
Funding develops, integrates and qualifies modifications to support Kiowa Warrior missions. The ACAT II KW Cockpit and Sensor Upgrade Program (CASUP) will convert the OH-58D to the OH-58F configuration, and allow it to continue to safely serve as the Army's armed reconnaissance, aviation platform through its operational service life. Efforts include upgrading Control Display System (CDS) mission computers, avionics, intercom system, aircraft survivability systems, weapon systems, electrical systems, and cockpit instruments and displays, reducing weight and obsolescence, structural modifications, and replacing single with dual channel Full Authority Digital Electronic Control (FADEC), the MMS with the nose mounted AN/AAS-53 Common Sensor Payload (CSP) which is common with the Gray Eagle Unmanned Aerial Vehicle (UAV). Training Aids, Devices, Simulators and Simulations (TADSS) will be upgraded to maintain concurrency.												
Additionally, the funding will incorporate required design improvements by Engineering Change Proposal (ECP) to the Single Channel FADEC Upgrade Electronic Control Unit (SCFU ECU) to improve safety and reliability of the OH-58D engine fuel control.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Development and Integration									45.274	32.632	-	
									Articles: -	-	-	
Description: Development and Integration Efforts												
FY 2013 Accomplishments: Development and Integration Efforts												
FY 2014 Plans: Development and Integration Efforts												
Title: Engineering Support Activities									17.550	17.512	-	

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0604220A / Armed, Deployable Helos				Project (Number/Name) 538 / Kiowa Warrior				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2013	FY 2014	FY 2015
Articles: Description: Engineering Support Activities FY 2013 Accomplishments: Engineering Support Activities FY 2014 Plans: Engineering Support Activities										-	-	-
Title: Test and Evaluation Articles: Description: Test and Evaluation FY 2013 Accomplishments: Test and Evaluation FY 2014 Plans: Test and Evaluation										6.615 -	10.170 -	- -
Title: Program Management Articles: Description: Program Management FY 2013 Accomplishments: Program Management FY 2014 Plans: Program Management										6.628 -	6.029 -	- -
Accomplishments/Planned Programs Subtotals										76.067	66.343	-
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
• (AZ2200): Kiowa Warrior (AZ2200)	192.484	184.044	-	-	-	-	-	-	-	-	376.528	
• (A02345): Kiowa WRA (A02345)	183.900	117.000	-	-	-	-	-	-	-	-	300.900	

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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>			
C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2015</u>	<u>FY 2015</u>	<u>FY 2015</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Complete</u>	<u>Total Cost</u>
Remarks											
Funding will procure and install modification kits and components on the Kiowa Warrior (KW).											
D. Acquisition Strategy											
The Government serves as the system integrator managing multiple contracts and government agencies.											
E. Performance Metrics											
N/A											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army **Date:** March 2014

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>
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Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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	21.802	6.628	Jan 2013	6.029	Jan 2014	-		-		-	-	34.459	-
Subtotal			21.802	6.628		6.029		-		-		-	-	34.459	-

Remarks

Funding will provide Armed Scout Helicopter (ASH) Government and contractor Program Management, Engineering, and Logistical support.

Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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. / PIF/ BHTI	220.759	45.274	Nov 2012	32.632	Nov 2013	-		-		-	-	298.665	-
Subtotal			220.759	45.274		32.632		-		-		-	-	298.665	-

Remarks

Funding will provide both contractor and in-house development and integration efforts. Development and Integration activities will be performed by Honeywell Inc, Prototype Integration Facility and Bell Helicopter Textron Inc.

Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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	34.795	17.550	Mar 2013	17.512	Mar 2014	-		-		-	-	69.857	-
Subtotal			34.795	17.550		17.512		-		-		-	-	69.857	-

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).

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army													Date: March 2014		
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>				

Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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	7.769	6.615	Feb 2013	10.170	Feb 2014	-		-		-	-	24.554	-
Subtotal			7.769	6.615		10.170		-		-		-	-	24.554	-

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).

	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	285.125	76.067		66.343		-		-		-	-	427.535	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army			Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604220A / Armed, Deployable Helos	Project (Number/Name) 538 / Kiowa Warrior	

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
Development/Integration Contracts																												
Test and Evaluation																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army			Date: March 2014
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>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Development/Integration Contracts	4	2008	2	2015
Test and Evaluation	4	2010	4	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014																																		
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>																																			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost																																
53Z: <i>Armed Scout Helicopter</i>	-	4.867	3.464	-	-	-	-	-	-	-	Continuing	Continuing																																
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-																																		
# The FY 2015 OCO Request will be submitted at a later date. 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. B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td align="center">FY 2013</td> <td align="center">FY 2014</td> <td align="center">FY 2015</td> </tr> <tr> <td>Title: AAS AoA and Milestone Support/Risk Reduction</td> <td align="right">4.867</td> <td align="right">3.464</td> <td align="center">-</td> </tr> <tr> <td align="right">Articles:</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> </tr> <tr> <td colspan="4">Description: Funding is provided for the following effort</td> </tr> <tr> <td colspan="4">FY 2013 Accomplishments: AAS AoA and Milestone support</td> </tr> <tr> <td colspan="4">FY 2014 Plans: AAS AoA and Milestone support</td> </tr> <tr> <td align="right" colspan="2">Accomplishments/Planned Programs Subtotals</td> <td align="right">4.867</td> <td align="right">3.464</td> </tr> <tr> <td align="right" colspan="2"></td> <td></td> <td align="center">-</td> </tr> </table> C. Other Program Funding Summary (\$ in Millions) N/A Remarks														FY 2013	FY 2014	FY 2015	Title: AAS AoA and Milestone Support/Risk Reduction	4.867	3.464	-	Articles:	-	-	-	Description: Funding is provided for the following effort				FY 2013 Accomplishments: AAS AoA and Milestone support				FY 2014 Plans: AAS AoA and Milestone support				Accomplishments/Planned Programs Subtotals		4.867	3.464				-
	FY 2013	FY 2014	FY 2015																																									
Title: AAS AoA and Milestone Support/Risk Reduction	4.867	3.464	-																																									
Articles:	-	-	-																																									
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FY 2013 Accomplishments: AAS AoA and Milestone support																																												
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Accomplishments/Planned Programs Subtotals		4.867	3.464																																									
			-																																									

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
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>
D. Acquisition Strategy Not applicable for this item.		
E. Performance Metrics N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0604220A / Armed, Deployable Helos				Project (Number/Name) 53Z / Armed Scout Helicopter					
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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	9.025	4.867		-		-		-		-	-	13.892	-
Requirement Development	TBD	Various : Various	0.000	-		3.464		-		-		-	-	3.464	-
Subtotal			9.025	4.867		3.464		-		-		-	-	17.356	-
			Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			16.965	4.867		3.464		-		-		-	-	25.296	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army	Date: March 2014
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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>
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	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
VOLUNTARY FLIGHT DEMONSTRATION																												
MILESTONE SUPPORT and RISK REDUCTION																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army			Date: March 2014
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>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
VOLUNTARY FLIGHT DEMONSTRATION	3	2012	2	2013
MILESTONE SUPPORT and RISK REDUCTION	3	2012	4	2013