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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 / BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604611A / JAVELIN							
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	-	4.540	5.000	4.166	-	4.166	4.909	19.704	20.709	17.772	-	76.800
499: Javelin (AAWS-M)	-	4.540	5.000	4.166	-	4.166	4.909	19.704	20.709	17.772	-	76.800

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

Note

Adjustments to Budget Years: Army added funds in FY 15 to begin development of the Lightweight CLU to address user feedback on weight and bulk and to address the Close Combat Missiles System - Medium Capability Production Document objective system weight requirement.

A. Mission Description and Budget Item Justification

FY15 funding will fund developmental engineering of the Javelin Lightweight Command Launch Unit (CLU). Goal of the Javelin Lightweight CLU is a 50% reduction in size and weight, while meeting detect, recognize, and identify requirements. Javelin Lightweight CLU is a result of user feedback on weight and bulk, and addresses the Close Combat Missiles System - Medium Capability Production Document objective system weight requirement.

B. Program Change Summary (\$ in Millions)	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015 Base</u>	<u>FY 2015 OCO</u>	<u>FY 2015 Total</u>
Previous President's Budget	5.040	5.002	-	-	-
Current President's Budget	4.540	5.000	4.166	-	4.166
Total Adjustments	-0.500	-0.002	4.166	-	4.166
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	4.166	-	4.166
• Other Adjustments 1	-0.500	-0.002	-	-	-

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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 0604611A / JAVELIN				Project (Number/Name) 499 / Javelin (AAWS-M)			
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
499: Javelin (AAWS-M)	-	4.540	5.000	4.166	-	4.166	4.909	19.704	20.709	17.772	-	76.800
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
FY15 funding will fund developmental engineering of the Javelin Lightweight Command Launch Unit (CLU). Goal of the Javelin Lightweight CLU is a 50% reduction in size and weight, while meeting detect, recognize, and identify requirements. Javelin Lightweight CLU is a result of user feedback on weight and bulk, and addresses the Close Combat Missiles System - Medium Capability Production Document objective system weight requirement.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Javelin System Improvements Articles: Description: Improve the current Javelin missile with multi-purpose warhead (MPWH) (FY13-14). Develop Lightweight Command Launch Unit (FY15-19). FY 2013 Accomplishments: Javelin MPWH component qualification testing, final design review, and system level integration (non-flight) testing to prepare for system qualification. FY 2014 Plans: Javelin MPWH system qualification (flight), live fire testing for integration into Javelin Block I missile. CLU Far Target Locator demonstrations and user evaluations. FY 2015 Plans: Lightweight CLU system architecture design, research and design advanced lightweight composite materials for CLU housing, research and design small form factored / lightweight acquisition sensor and associated optics, and initiation of prototype software / firmware design.									4.540	5.000	4.166	
									-	-	-	
Accomplishments/Planned Programs Subtotals									4.540	5.000	4.166	
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	
• SSN CC0007: Javelin (AAWS-M) Procurement	75.170	110.510	77.668	-	77.668	77.902	63.013	73.684	65.073	Continuing	Continuing	

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

<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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Remarks

FY 15-19 procurement funds are to procure missiles only. No CLUs will be procured with these funds.

D. Acquisition Strategy

Javelin Lightweight CLU development will be conducted by the Javelin Joint Venture (Raytheon, Tucson, AZ, and Lockheed Martin, Orlando, FL). Engineering services contract with the Javelin Joint Venture will be utilized for Lightweight CLU development efforts. The major subassemblies, which are also the primary cost drivers, will be competed. The Javelin Joint Venture has invested Industry Research and Development in the Lightweight CLU. Development, prototype, and testing will occur FY15-19 with production beginning FY20. Current plan is to field to priority Infantry Brigade Combat Teams and Special Forces and cascade Block 0 CLUs out of the inventory.

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 0604611A / JAVELIN				Project (Number/Name) 499 / Javelin (AAWS-M)					
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
System Engineering/ Program Management, Govt	Allot	Close Combat Weapon Systems Project Office : Redstone Arsenal, AL	0.000	0.360		0.450		0.379		-		0.379	5.736	6.925	-
Subtotal			0.000	0.360		0.450		0.379		-		0.379	5.736	6.925	-
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
Multi-purpose Warhead Development	SS/CPFF	JJV/Raytheon/ Lockheed Martin : Orlando, FL/Tucson, AZ	0.000	1.127	May 2013	1.273	Jan 2014	-		-		-	-	2.400	-
Trade Studies and Demonstrations	MIPR	AMRDEC : Redstone Arsenal, AL	0.000	0.225		0.325		-		-		-	-	0.550	-
Lightweight CLU Development	SS/CPFF	JJV/Raytheon/ Lockheed Martin : Orlando, FL/ Tucson,AZ	0.000	-		-		2.437	Jan 2015	-		2.437	47.628	50.065	-
Lightweight CLU Development	MIPR	AMRDEC : Redstone Arsenal, AL	0.000	-		-		1.350		-		1.350	1.059	2.409	-
Subtotal			0.000	1.352		1.598		3.787		-		3.787	48.687	55.424	-
Remarks JV - Joint Venture SS CPFF - Sole Source Cost Plus Fixed Fee CLU - Command Launch Unit AMRDEC - Aviation & Missile Research, Development and Engineering Center MIPR - Military Interdepartmental Purchase Request															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army													Date: March 2014		
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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
MPWH System Qualification Testing/ Live Fire, Govt	MIPR	Redstone Test Center : Redstone Arsenal, AL	0.000	2.828		2.952		-		-		-	-	5.780	-
Lightweight CLU Test and Evaluation	SS/CPFF	JJV/Raytheon/ Lockheed Martin : Orlando, FL/Tucson, AZ	0.000	-		-		-		-		-	1.654	1.654	-
Lightweight CLU Test and Evaluation	MIPR	Redstone Test Center : Redstone Arsenal, AL	0.000	-		-		-		-		-	7.018	7.018	-
Subtotal			0.000	2.828		2.952		-		-		-	8.672	14.452	-
			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			0.000	4.540		5.000		4.166		-		4.166	63.095	76.801	-
Remarks															

UNCLASSIFIED

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 0604611A / JAVELIN		Project (Number/Name) 499 / Javelin (AAWS-M)	

	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
MPWH Development, Component Qualification																												
MPWH Systems Integration and Test																												
MPWH System Qualification/ Live Fire (Flight Testing)																												
MPWH Engineering Change Proposal Approval																												
LW CLU System Architecture Design																												
LW CLU Research/ Design Advanced Materials																												
Initiate LW CLU Prototype Software/Firmware																												
LW CLU Fabrication/ System Integration of Prototypes																												
LW CLU Prototype Lab and Field Tests																												
LW CLU Producibility and Environmental Design																												
LW CLU Design Verification Testing																												
LW CLU Qualification Testing																												

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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 0604611A / JAVELIN	Project (Number/Name) 499 / Javelin (AAWS-M)	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
MPWH Development, Component Qualification	2	2013	4	2013
MPWH Systems Integration and Test	2	2013	2	2014
MPWH System Qualification/ Live Fire (Flight Testing)	1	2014	4	2014
MPWH Engineering Change Proposal Approval	1	2015	1	2015
LW CLU System Architecture Design	1	2015	2	2015
LW CLU Research/ Design Advanced Materials	3	2015	4	2015
Initiate LW CLU Prototype Software/Firmware	4	2015	2	2016
LW CLU Fabrication/ System Integration of Prototypes	3	2016	3	2016
LW CLU Prototype Lab and Field Tests	4	2016	4	2016
LW CLU Producibility and Environmental Design	1	2017	1	2018
LW CLU Design Verification Testing	1	2018	1	2019
LW CLU Qualification Testing	2	2019	4	2019