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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0607134A / Long Range Precision Fires (LRPF)							
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	39.275	-	39.275	64.808	79.697	59.177	62.775	Continuing	Continuing
ES1: Long Range Precision Fires (LRPF)	-	0.000	0.000	39.275	-	39.275	64.808	79.697	59.177	62.775	Continuing	Continuing

Note

In FY 2017 LRPF continues under new PE 0607134A, Project ES1. Funding was realigned from PE 0603778A, Project DZ8.

A. Mission Description and Budget Item Justification

The Long Range Precision Fires (LRPF) program is being developed as a cluster and insensitive munition compliant system that replaces and improves upon Army Tactical Missile System (ATACMS) capabilities to provide Joint Force Commanders with a 24/7, all-weather, area target, long-range fires capability without placing aircraft and crews at risk. The mission of the LRPF System will be to attack/neutralize/suppress/destroy targets using missile delivered indirect precision fires. The LRPF will counter the enemy's ability to conduct combat maneuver and air defense operations. Targets include counter-fire, air defense, command and control, and other high payoff targets at all depths of the tactical battlefield. LRPF requirements include 300km range; specified lethality against the designated target set, a Launch Pod Missile Container (LPMC) that holds a minimum of two missiles; and compatibility with the existing launcher platforms (M270A1 and High Mobility Artillery Rocket System (HIMARS)). An Analysis of Alternatives (AoA) was directed in the Material Development Decision (MDD) on 6 November 2013. The AoA was completed on 30 April 2015 and a letter of sufficiency issued by OSD in August 2015.

B. Program Change Summary (\$ in Millions)

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	39.275	-	39.275
Total Adjustments	0.000	0.000	39.275	-	39.275
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	39.275	-	39.275

Change Summary Explanation

FY 2017 funding reflects the movement of the program from PE 0603778A, Project DZ8.

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Army										Date: February 2016		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0607134A / Long Range Precision Fires (LRPF)				Project (Number/Name) ES1 / Long Range Precision Fires (LRPF)			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
ES1: Long Range Precision Fires (LRPF)	-	0.000	0.000	39.275	-	39.275	64.808	79.697	59.177	62.775	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2017 LRPF continues under a new PE 0607134A, Project ES1. Funding was realigned from PE 0603778A, Project DZ8.

A. Mission Description and Budget Item Justification

The LRPF is being developed as a cluster and insensitive munition-compliant system that replaces and improves upon ATACMS capabilities to provide Joint Force Commanders with a 24/7, all-weather, area target, long-range fires capability without placing aircraft and crews at risk. The mission of the LRPF System will be to attack/neutralize/suppress/destroy targets using missile delivered indirect precision fires. The LRPF will counter the enemy's ability to conduct combat maneuver and air defense operations. Targets include counter-fire, air defense, command and control, and other high payoff targets at all depths of the tactical battlefield. LRPF requirements include 300km range; specified lethality against the designated target set, a Launch Pod Missile Container (LPMC) that holds a minimum of two missiles; and compatibility with the existing launcher platforms (M270A1 and High Mobility Artillery Rocket System (HIMARS)). The Army has completed an Analysis of Alternatives (AoA), in accordance with Office of the Secretary of Defense (OSD) approved Material Development Decision (MDD) on 6 November 2013. The AoA was completed on 30 April 2015 and a letter of sufficiency issued by OSD in August 2015.

The LRPF program Milestone(MS) A Decision is scheduled for 2QFY16. FY 2017 funding is requested to provide incremental funding to continue risk reduction activities through the execution of Technology Maturation/Risk Reduction (TMRR) system demonstration contracts to be awarded in 3QFY16. LRPF will be developed using competitive prototyping, carrying two or more contractors through the TMRR Phase. The FY17 funding will be used to continue execution of two TMRR prototyping and flight demonstration contracts and conduct System Requirements Review (SRR), functional reviews, and prototype design activities and long-lead material procurement to support flight demonstrations and Preliminary Design Reviews (PDRs) in FY19. This funding also supports Government management and Government systems engineering and test support activities. LRPF is scheduled for a MS B in FY2020 and MS C in FY2024.

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

	FY 2015	FY 2016	FY 2017
Title: TMRR	-	-	39.275
Description: Funding is provided for the following effort.			
FY 2017 Plans: Continue execution of two TM/RR prototyping and flight demonstration contracts. Conduct System Requirements Reviews (SRRs), functional reviews, and prototype design activities.			
Accomplishments/Planned Programs Subtotals	-	-	39.275

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C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
D. Acquisition Strategy The LRPF is being developed as a cluster and insensitive munition-compliant system that replaces and improves upon ATACMS capabilities to provide Joint Force Commanders with a 24/7, all-weather, area target, long-range fires capability without placing aircraft and crews at risk. An AoA supporting the MS A decision has been completed by U.S. Army Training and Doctrine Command (TRADOC) Analysis Center-White Sands Missile Range (TRAC-WSMR), with the OSD letter of sufficiency issued in August 2015. The Milestone Decision Authority will hold a MS A decision review in 2QFY16. After an MS A decision directing a new start LRPF system, the program office will conduct a limited competition in FY16 of a 45 month TMRR phase using DoD Ordnance Technology Consortium (DOTC) Other Transaction Authority (OTA) for competitive prototyping. TMRR will include two award agreements in 3QFY16 leading to flight demonstrations and PDRs in FY19. Data from the TMRR phase will support the EMD contract competition in FY19 that will result in selection of a single contractor for Engineering and Manufacturing Development at MS B in FY20 to complete product development, qualification, production readiness assessment, and limited user test.		
E. Performance Metrics N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607134A / Long Range Precision Fires (LRPF)	Project (Number/Name) ES1 / Long Range Precision Fires (LRPF)
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Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Government Program Management	SS/TBD	PFRMS Project Office : RSA	0.000	-		-		4.231	Oct 2016	-		4.231	0	4.231	0
Subtotal			0.000	-		-		4.231		-		4.231	0.000	4.231	0.000

Remarks
PFRMS - Precision Fires Rocket and Missile Systems; RSA - Redstone Arsenal, Alabama;

Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
LRPF Risk Reduction - 2 Vendors (DOTC OTA)	TBD	TBD : TBD	0.000	-		-		29.228	Apr 2017	-		29.228	0	29.228	0
Development Engineering Support	MIPR	AMCOM/AMRDEC : RSA	0.000	-		-		3.250	Apr 2017	-		3.250	0	3.250	0
Subtotal			0.000	-		-		32.478		-		32.478	0.000	32.478	0.000

Remarks
LRPF - Long Range Precision Fires; TBD - To Be Determined; AMCOM - Army Material Command; AMRDEC - U.S. Army Research, Development and Engineering Command; RSA - Redstone Arsenal, Alabama

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Systems Engineering, Testing, and Analysis	C/TBD	TBD : TBD	0.000	-		-		2.351	Oct 2016	-		2.351	0	2.351	0
Subtotal			0.000	-		-		2.351		-		2.351	0.000	2.351	0.000

Remarks
TBD - To Be Determined

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607134A / Long Range Precision Fires (LRPF)	Project (Number/Name) ES1 / Long Range Precision Fires (LRPF)
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Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Test Support	MIPR	WSMR; RTC : WSMR,NM; RSA	0.000	-		-		0.215	Oct 2016	-		0.215	0	0.215	0
Subtotal			0.000	-		-		0.215		-		0.215	0.000	0.215	0.000

Remarks
WSMR,NM - White Sands Missile Range, New Mexico; RTC - Redstone Test Center; RSA - Redstone Arsenal, Alabama

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	-	0.000	39.275	-	39.275	0.000	39.275	0.000

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607134A / Long Range Precision Fires (LRPF)	Project (Number/Name) ES1 / Long Range Precision Fires (LRPF)
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Event Name	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	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
AoA																												
(1) MS A																												
TM/RR																												
Vendor #1 Contract (DOTC OTA)																												
Vendor #2 Contract (DOTC OTA)																												
(2) Preliminary Design Review																												
(3) MS B																												
Engineering Manufacturing Development Phase																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607134A / Long Range Precision Fires (LRPF)	Project (Number/Name) ES1 / Long Range Precision Fires (LRPF)

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
AoA	2	2015	3	2015
MS A	2	2016	2	2016
TM/RR	3	2016	1	2020
Vendor #1 Contract (DOTC OTA)	3	2016	1	2020
Vendor #2 Contract (DOTC OTA)	3	2016	1	2020
Preliminary Design Review	3	2019	3	2019
MS B	2	2020	2	2020
Engineering Manufacturing Development Phase	2	2020	3	2024

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