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

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604645A / <i>Armored Systems Modernization (ASM) - Eng Dev</i>
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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	9.678	-	9.678	9.808	29.820	119.828	164.826	Continuing	Continuing
EV8: <i>Mobile Protected Firepower</i>	-	0.000	0.000	9.678	-	9.678	9.808	29.820	119.828	164.826	Continuing	Continuing

A. Mission Description and Budget Item Justification

Infantry Brigade Combat Teams (IBCTs) lack the mobile protected firepower capability necessary to defeat enemy prepared positions, destroy enemy armored vehicles, close with the enemy through fire and maneuver, and ensure freedom of maneuver and action in close contact with the enemy. Mobile Protected Firepower (MPF) will provide the protected, long range, precision direct-fire capability to ensure freedom of movement and action during offensive operations or defeat attacking enemy during defensive operations.

The funding in FY2017 will support trade studies, technical/operational/affordability analysis, the possible initiation of an Alternative of Analysis (AoA), designs for new development concepts or modification to existing platforms, and potential prototyping to assess such designs or modifications if funding permits.

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	9.678	-	9.678
Total Adjustments	0.000	0.000	9.678	-	9.678
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	9.678	-	9.678

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Army										Date: February 2016		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604645A / Armored Systems Modernization (ASM) - Eng Dev				Project (Number/Name) EV8 / Mobile Protected Firepower			
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
EV8: Mobile Protected Firepower	-	0.000	0.000	9.678	-	9.678	9.808	29.820	119.828	164.826	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

The Mobile Protected Firepower (MPF) program is a New Start effort.

A. Mission Description and Budget Item Justification

Infantry Brigade Combat Teams (IBCTs) lack the mobile protected firepower capability necessary to defeat enemy prepared positions, destroy enemy armored vehicles, close with the enemy through fire and maneuver, and ensure freedom of maneuver and action in close contact with the enemy. Mobile Protected Firepower (MPF) will provide the protected, long range, precision direct-fire capability to ensure freedom of movement and action during offensive operations or defeat attacking enemy during defensive operations.

The funding in FY2017 will support trade studies, technical/operational/affordability analysis, the initiation of an Alternative of Analysis (AoA), designs for new development concepts or modification to existing platforms, and potential prototyping to assess such designs or modifications if funding permits.

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

	FY 2015	FY 2016	FY 2017
Title: Government Engineering and Project Management	-	-	9.678
Description: Funding is provided for the following effort			
FY 2017 Plans: Provides for basic Government oversight of the Mobile Protected Firepower (MPF) program. Includes funding for government personnel (labor, travel, training, supplies) and other support (other government agencies, support contractors, automated data processing, communications, and equipment). Initiation of the MPF Analysis of Alternatives (AoA), which will assess the operational effectiveness, suitability, and life-cycle cost of materiel solutions that satisfy requirements contained within the MPF Initial Capabilities Document (ICD). The results of the MPF AoA will provide critical information to support a Milestone A or B in 1QFY2019.			
Accomplishments/Planned Programs Subtotals	-	-	9.678

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

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u> <u>Base</u>	<u>FY 2017</u> <u>OCO</u>	<u>FY 2017</u> <u>Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• Mobile Protected Firepower (G80820): <i>Mobile Protected Firepower (G80820)</i>	-	-	-	-	-	-	-	-	69.470	0.000	69.470

Remarks

D. Acquisition Strategy

Upon successful execution of a Mobile Protected Firepower (MPF) Materiel Development Decision (MDD) by late FY17 an Analysis of Alternative (AoA) will be initiated to assess the operational effectiveness, suitability, and life-cycle cost of potential materiel solutions that satisfy requirements contained within the MPF Initial Capabilities Document (ICD). Materiel Solution Analysis will support a future decision whether the MPF Program will likely enter the Defense Acquisition System at Milestone A or Milestone B in FY2019.

E. Performance Metrics

N/A

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

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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			
Project Management Office	RO	Government Warren MI; : Various	0.000	-		-		9.678	Dec 2016	-		9.678	Continuing	Continuing	0
Subtotal			0.000	-		-		9.678		-		9.678	-	-	0.000

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			
MPF Development	TBD	Various Contractor sites : TBD	0.000	-		-		-		-		-	Continuing	Continuing	0
Subtotal			0.000	-		-		-		-		-	-	-	0.000

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			
MPF Testing	TBD	Various Test Sites : TBD	0.000	-		-		-		-		-	Continuing	Continuing	0
Subtotal			0.000	-		-		-		-		-	-	-	0.000

			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	9.678	-	9.678	-	-	0.000

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

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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				
MPF Materiel Development Decision									■																							
MPF Analysis of Alternatives									MPF MDD																							
(1) MPF Milestone A or B													MPF AoA																			
MPF Technology Maturation and Risk Reduction or Engineering & Manu																	▲	MPF Milestone A or B							MPF TMRR or EMD							

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

Events	Start		End	
	Quarter	Year	Quarter	Year
MPF Materiel Development Decision	3	2017	3	2017
MPF Analysis of Alternatives	3	2017	3	2018
MPF Milestone A or B	1	2019	1	2019
MPF Technology Maturation and Risk Reduction or Engineering & Manufacturing Dev	2	2019	4	2021