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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 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0205778A I Guided Multiple-Launch Rocket System (GMLRS)							
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	-	-	45.353	17.527	-	17.527	27.829	29.669	29.406	24.036	Continuing	Continuing
EG2: GMLRS Alternative Warheads	-	-	33.880	0.319	-	0.319	-	-	-	-	Continuing	Continuing
EG3: Guided MLRS	-	-	11.473	17.208	-	17.208	27.829	29.669	29.406	24.036	Continuing	Continuing

Note

Adjustments to Budget Years: Funding adjusted to reflect changes to FY2015-2016 activities.

A. Mission Description and Budget Item Justification

Projects EG2/EG3. GMLRS rockets are surface-to-surface artillery rockets fired from the Multiple Launch Rocket System (MLRS) and High Mobility Artillery Rocket System (HIMARS) launchers. GMLRS rockets provide 24/7, all-weather precision fires to engage both area and point targets at short, medium, and long ranges.

The GMLRS Program consists of three separate increments: GMLRS Dual Purpose Improved Conventional Munition (DPICM) cluster munition to engage area or imprecisely located targets; GMLRS Unitary that utilizes a 200 lb high explosive warhead to engage point targets with limited collateral damage; and GMLRS Alternative Warhead (AW) that is being developed as a non-cluster munition to replace GMLRS DPICM. GMLRS DPICM Production was terminated in response to the June 2008 Department of Defense (DoD) Cluster Munitions Policy. GMLRS Unitary is currently in full rate production. GMLRS AW is currently in the Engineering and Manufacturing Development (EMD) Phase and scheduled to enter full rate production in FY2015. The GMLRS AW rocket is 90% common with the Unitary variant.

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	-	45.377	17.175	-	17.175
Current President's Budget	-	45.353	17.527	-	17.527
Total Adjustments	-	-0.024	0.352	-	0.352
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-0.024	0.352	-	0.352

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army										Date: February 2015		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0205778A / Guided Multiple-Launch Rocket System (GMLRS)				Project (Number/Name) EG2 / GMLRS Alternative Warheads			
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
EG2: GMLRS Alternative Warheads	-	-	33.880	0.319	-	0.319	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Beginning in FY2015, Guided Multiple Launch Rocket System (GMLRS) has its own separate Program Element, 0205778A, to include Projects EG2 (GMLRS Alternative Warhead) and EG3 (Guided MLRS), previously under Program Element 0603778A Project Codes 78G and 784, respectively.

A. Mission Description and Budget Item Justification

The United States (U.S.) Army is funding the development of the Guided Multiple Launch Rocket System (GMLRS) Alternative Warhead (AW) increment under the EG2-GMLRS AW project code. GMLRS AW is being developed as a non-cluster munition to replace GMLRS Dual Purpose Improved Conventional Munitions (DPICM) and service the same area and imprecisely-located targets. GMLRS DPICM Production was terminated in response to the June 2008 Department of Defense (DoD) Cluster Munitions Policy.

The GMLRS AW increment completed Milestone B (MS B) on February 19, 2012 and is currently in the Engineering and Manufacturing Development (EMD) Phase. The three-year EMD contract was awarded on March 30, 2012. Funding was requested in FY2013 for the second year of the EMD contract and for other government and contracted EMD activities to include engineering developmental testing and the Critical Design Review (CDR). GMLRS AW is scheduled for a combined Milestone C (MS C) and Full Rate Production (FRP) Decision in FY2015 and Initial Operational Capability (IOC) in FY2016. Acquisition Strategy is to procure AW as part of the annual GMLRS FRP contract.

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

	FY 2014	FY 2015	FY 2016
Title: Conduct Development Engineering, Design Component Testing, and Performance Analysis.	-	15.754	0.319
Description: Funding is provided for the following effort			
FY 2015 Plans: Assess warhead capability and effectiveness in multiple employment scenarios.			
FY 2016 Plans: Continue assessment of warhead capability and effectiveness in multiple employment scenarios.			
Title: Perform technical assessments and concept studies.	-	8.470	-
Description: Funding is provided for the following effort			
FY 2015 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army										Date: February 2015		
Appropriation/Budget Activity 2040 / 7				R-1 Program Element (Number/Name) PE 0205778A / <i>Guided Multiple-Launch Rocket System (GMLRS)</i>				Project (Number/Name) EG2 / <i>GMLRS Alternative Warheads</i>				
B. Accomplishments/Planned Programs (\$ in Millions)												
Evaluate production rate tooling assessments; conduct functional configuration audit; assess readiness for operational testing.										FY 2014	FY 2015	FY 2016
Title: Prepare Milestone Documentation, Risk Reduction, and Program Reviews. Description: Funding is provided for the following effort FY 2015 Plans: Finalize milestone documentation; preparation of all documentation and presentation requirements associated with completion and execution of MS C and Full Rate Production Decision (FRPDR).										-	1.491	-
Title: Conduct System Test and Evaluation Activities. Description: Funding is provided for the following effort FY 2015 Plans: Initial Operational Test and Evaluation (IOT&E).										-	8.165	-
Accomplishments/Planned Programs Subtotals										-	33.880	0.319
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	
• GMLRS (C64400): <i>GMLRS (C64400)</i>	273.025	127.145	251.060	-	251.060	155.428	170.820	205.038	232.632	Continuing	Continuing	
• Guided MLRS (784 & EG3): <i>Guided MLRS (784 & EG3)</i>	15.200	11.473	17.208	-	17.208	27.829	29.669	29.406	24.036	Continuing	Continuing	
Remarks GMLRS procurement funding includes C65404 and C65406.												
D. Acquisition Strategy The GMLRS AW rocket is a product improved version of the current GMLRS rocket. During EMD, GMLRS AW will undergo further development, integration, and testing under a Firm Fixed Price (FFP) contract. Beginning in FY2015, GMLRS has its own separate Program Element, 0205778A, to include Projects EG2 (GMLRS Alternative Warhead) and EG3 (Guided MLRS), previously under Program Element 0603778A Project Codes 78G and 784, respectively.												

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0205778A / Guided Multiple-Launch Rocket System (GMLRS)	Project (Number/Name) EG2 / GMLRS Alternative Warheads
E. Performance Metrics N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army												Date: February 2015			
Appropriation/Budget Activity 2040 / 7						R-1 Program Element (Number/Name) PE 0205778A / Guided Multiple-Launch Rocket System (GMLRS)				Project (Number/Name) EG2 / GMLRS Alternative Warheads					
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
Government Program Management	TBD	PFRMS Project Office, : RSA	0.000	-		4.642	Oct 2014	0.319	Oct 2015	-		0.319	Continuing	Continuing	Continuing
Subtotal			0.000	-		4.642		0.319		-		0.319	-	-	-
Remarks TBD-To Be Determined; Cont.-Continuing; PFRMS-Precision Fires Rocket and Missile Systems; RSA-Redstone Arsenal															
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
AWP Contracts (Multiple)	Various	ATK (Plymouth, MN) LMMFCS (Dallas, TX) : Systems Integrator	0.000	-		11.081	Dec 2014	-		-		-	Continuing	Continuing	Continuing
Other Government Agencies	TBD	AMCOM/ : AMRDEC, RSA	0.000	-		3.557	Dec 2014	-		-		-	Continuing	Continuing	Continuing
Subtotal			0.000	-		14.638		-		-		-	-	-	-
Remarks AWP-Alternative Warhead Program; Various-Competitive/Firm Fixed Price/Sole Source/Cost Plus Fixed Fee; TBD-To Be Determined; Cont.-Continuing; AMCOM-Army Materiel Command; AMRDEC-U.S. Army Research, Development and Engineering Command; RSA-Redstone Arsenal; ATK-Alliant Techsystems, Inc.; MN-Minnesota; LMMFCS- Lockheed Martin Missile and Fire Control System; TX-Texas															
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
Support Contracts	C/CPFF	Camber Research/ S3/TMI, : Alabama	0.000	-		0.237	Dec 2014	-		-		-	Continuing	Continuing	Continuing
Subtotal			0.000	-		0.237		-		-		-	-	-	-

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Appropriation/Budget Activity 2040 / 7						R-1 Program Element (Number/Name) PE 0205778A / Guided Multiple-Launch Rocket System (GMLRS)						Project (Number/Name) EG2 / GMLRS Alternative Warheads			
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 C/CPFF-Competitive/Cost Plus Fixed Fee; Cont.-Continuing; S3-Systems Studies Simulation, Inc.; TMI-Tec Master, Inc.															
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 Support	TBD	WSMR, : NM	0.000	-		14.363	Dec 2014	-		-		-	-	14.363	-
Subtotal			0.000	-		14.363		-		-		-	-	14.363	-
Remarks TBD-To Be Determined; Cont.-Continuing; WSMR, NM-White Sands Missile Range, New Mexico															
			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			0.000	-		33.880		0.319		-		0.319	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army																Date: February 2015												
Appropriation/Budget Activity										R-1 Program Element (Number/Name)								Project (Number/Name)										
2040 / 7										PE 0205778A / Guided Multiple-Launch Rocket System (GMLRS)								EG2 / GMLRS Alternative Warheads										
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
Initial Operational Test (IOT)																												
Perform Technical Assessments and Concept Studies																												
(1) MS C and FRP																												
(2) IOC																												
Conduct Development Engineering/Design Component Testing/Performance																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army			Date: February 2015
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0205778A / <i>Guided Multiple-Launch Rocket System (GMLRS)</i>	Project (Number/Name) EG2 / <i>GMLRS Alternative Warheads</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Initial Operational Test (IOT)	1	2015	2	2015
Perform Technical Assessments and Concept Studies	1	2015	2	2015
MS C and FRP	3	2015	3	2015
IOC	3	2016	3	2016
Conduct Development Engineering/Design Component Testing/Performance Analysis	1	2015	2	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army										Date: February 2015		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0205778A / Guided Multiple-Launch Rocket System (GMLRS)				Project (Number/Name) EG3 / Guided MLRS			
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
EG3: Guided MLRS	-	-	11.473	17.208	-	17.208	27.829	29.669	29.406	24.036	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note												
Beginning in FY2015, Guided Multiple Launch Rocket System (GMLRS) has its own separate Program Element, 0205778A, to include Projects EG2 (GMLRS Alternative Warhead) and EG3 (Guided MLRS), previously under Program Element 0603778A Project Codes 78G and 784, respectively.												
A. Mission Description and Budget Item Justification												
The United States (U.S.) Army continues to explore ways to enhance Guided Multiple Launch Rocket System (GMLRS) Unitary rockets and common components and to mitigate obsolescence issues under the Guided MLRS project code. The Army is requesting funding for the following GMLRS Research, Development, Test and Evaluation (RDT&E) activities: (1) evaluation of enhanced operational capabilities to provide more flexibility across the target set to include increased range, flight performance, and end game optimization; (2) investigation of potential life cycle cost savings through obsolescence initiatives; (3) development of enhancements to the Multiple Launch Rocket System (MLRS) common test equipment; and (4) evaluation and development of technologies to enhance overall product performance and survivability to include Long-Range Precision Fires (LRPF) capabilities and (5) Insensitive Munitions (IM) compliance.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2014	FY 2015	FY 2016
Title: Assess and improve GMLRS rockets.										-	1.606	2.409
Description: Funding is provided for the following effort												
FY 2015 Plans:												
Continue to assess and evaluate improvements in rocket reliability, increased range, collateral damage, and effectiveness, execute spinless rail flights, and pod enhancement studies.												
FY 2016 Plans:												
Continue to assess and evaluate improvements in rocket reliability, increased range, collateral damage, effectiveness, and pod enhancements.												
Title: Conduct development engineering and testing for IM program.										-	6.425	9.636
Description: Funding is provided for the following effort												
FY 2015 Plans:												
Conduct System Functional Design Review (FDR) and System Integration Tests (SITs) and STS flights.												
FY 2016 Plans:												

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Appropriation/Budget Activity 2040 / 7				R-1 Program Element (Number/Name) PE 0205778A / Guided Multiple-Launch Rocket System (GMLRS)				Project (Number/Name) EG3 / Guided MLRS			
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2014	FY 2015	FY 2016
Proplusion system ground/flight tests.											
Title: Investigate obsolescence cost/cost reduction opportunities/second source suppliers.									-	1.033	1.549
Description: Funding is provided for the following effort											
FY 2015 Plans: Insert Guidance Processor Unit (GPU) and Power Condition Unit (PCU) into GMLRS program.											
FY 2016 Plans: Insert Guidance Processor Unit (GPU) and Power Condition Unit (PCU) into GMLRS program.											
Title: Conduct System Test and Evaluation activities.									-	2.409	3.614
Description: Funding is provided for the following effort											
FY 2015 Plans: Conduct configuration ground control testing for the GMLRS IM Rocket Motor (RM) and Ignition Safety Device (ISD).											
FY 2016 Plans: Conduct configuration ground control testing and flight testing for the GMLRS IM Rocket Motor (RM) and Ignition Safety Device (ISD).											
Accomplishments/Planned Programs Subtotals									-	11.473	17.208
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
• GMLRS (C64400): GMLRS (C64400)	273.025	127.145	251.060	-	251.060	155.428	170.820	205.038	232.632	Continuing	Continuing
• Gmlrs Alternative Warhead (78G & EG: Gmlrs Alternative Warhead (78G & EG2)	38.528	33.880	0.319	-	0.319	-	-	-	-	Continuing	Continuing
Remarks											
GMLRS Procurement funding includes C65404 and C65406.											

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0205778A / Guided Multiple-Launch Rocket System (GMLRS)	Project (Number/Name) EG3 / Guided MLRS
D. Acquisition Strategy <p>Project EG3 is intended to support, investigate, and develop alternative material changes to improve the GMLRS family of munitions as they are identified by the material developer or combat developer. This project also supports Insensitive Munitions (IM) activities to improve the overall posture of the system all the way down to component level. Future initiatives include a missile modernization program to extend the shelf life of the GMLRS rocket.</p> <p>Beginning in FY2015, GMLRS has its own separate Program Element, 0205778A, to include Projects EG2 (GMLRS Alternative Warhead) and EG3 (Guided MLRS), previously under Program Element 0603778A Project Codes 78G and 784, respectively.</p> E. Performance Metrics N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army												Date: February 2015			
Appropriation/Budget Activity 2040 / 7						R-1 Program Element (Number/Name) PE 0205778A / Guided Multiple-Launch Rocket System (GMLRS)						Project (Number/Name) EG3 / Guided MLRS			
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
Government Program Management	TBD	PFRMS Project Office, : RSA	0.000	-		0.138	Oct 2014	0.138	Oct 2015	-		0.138	Continuing	Continuing	Continuing
Subtotal			0.000	-		0.138		0.138		-		0.138	-	-	-
Remarks TBD-To Be Determined; Cont.-Continuing; PFRMS-Precision Fires Rocket and Missile Systems; RSA-Redstone Arsenal, Alabama															
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
Unitary Contracts/Multiple	SS/CPFF	LMMFCS : Dallas, TX	0.000	-		8.857	Dec 2014	10.978	Dec 2015	-		10.978	Continuing	Continuing	Continuing
Subtotal			0.000	-		8.857		10.978		-		10.978	-	-	-
Remarks SS/CPFF-Sole Source/Cost Plus Fixed Fee; Cont.-Continuing; LMMFCS - Lockheed Martin Missile and Fire Control System; TX - Texas; AMCOM-Aviation and Missile Command; TBD-To Be Determined; AMRDEC - U.S. Army Research, Development and Engineering Command; RSA - Redstone Arsenal, Alabama															
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 Support	TBD	WSMR, : NM	0.000	-		2.478	Dec 2014	6.092	Dec 2015	-		6.092	Continuing	Continuing	Continuing
Subtotal			0.000	-		2.478		6.092		-		6.092	-	-	-
Remarks TBD-To Be Determined; Cont.-Continuing; WSMR, NM-White Sands Missile Range, New Mexico															
			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			0.000	-		11.473		17.208		-		17.208	-	-	-

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Appropriation/Budget Activity 2040 / 7				R-1 Program Element (Number/Name) PE 0205778A / Guided Multiple-Launch Rocket System (GMLRS)		Project (Number/Name) EG3 / Guided MLRS				
	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks										

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army																Date: February 2015												
Appropriation/Budget Activity 2040 / 7										R-1 Program Element (Number/Name) PE 0205778A / Guided Multiple-Launch Rocket System (GMLRS)								Project (Number/Name) EG3 / Guided MLRS										
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
Technical Assessment/Concept, Survivability																												
Obsolescence/Cost Reduction Opportunities and Second Source Supply																												
GPU/PCU Qualification Testing																												
(1) GPU/PCU Qualification Flights																												
IM/Enhanced Technology Improvements																												
Configuration System Qualification Ground/Flight Testing																												
(2) Engineering Change Proposal (ECP) Cut In Decision																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army			Date: February 2015
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0205778A / <i>Guided Multiple-Launch Rocket System (GMLRS)</i>	Project (Number/Name) EG3 / <i>Guided MLRS</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Technical Assessment/Concept, Survivability	1	2015	4	2020
Obsolescence/Cost Reduction Opportunities and Second Source Suppliers	1	2015	4	2020
GPU/PCU Qualification Testing	1	2015	2	2016
GPU/PCU Qualification Flights	4	2016	4	2016
IM/Enhanced Technology Improvements	1	2015	4	2020
Configuration System Qualification Ground/Flight Testing	2	2015	3	2018
Engineering Change Proposal (ECP) Cut In Decision	3	2018	3	2018