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Department of Defense
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

Modernized Selected Acquisition Report (MSAR)

Guided Multiple Launch Rocket System/ Guided Multiple Launch Rocket System Alternative Warhead (GMLRS/GMLRS AW)

FY 2025 President's Budget

Effective: December 31, 2023

Defense Acquisition Visibility Environment

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(U) Common DoD Abbreviations

\$B	Billions of Dollars
\$K	Thousands of Dollars
\$M	Millions of Dollars
ACAT	Acquisition Category
Acq O&M	Acquisition-Related Operations and Maintenance
ADM	Acquisition Decision Memorandum
APA	Additional Performance Attribute
APB	Acquisition Program Baseline
APPN	Appropriation
APUC	Average Procurement Unit Cost
BA	Budget Authority or Budget Activity
Blk	Block
BY	Base Year
CAE	Component Acquisition Executive
CAPE	Cost Assessment and Program Evaluation
CARD	Cost Analysis Requirements Description
CCE	Component Cost Estimate
CCP	Component Cost Position
CDD	Capability Development Document
CLIN	Contract Line Item Number
CPD	Capability Production Document
CY	Calendar Year or Constant Year
DAB	Defense Acquisition Board
DAE	Defense Acquisition Executive
DAES	Defense Acquisition Executive Summary
DAVE	Defense Acquisition Visibility Environment
DoD	Department of Defense
DSN	Defense Switched Network
EMD	Engineering and Manufacturing Development
EVM	Earned Value Management
FD	Full Deployment
FDD	Full-Deployment Decision
FMS	Foreign Military Sales
FOC	Full Operational Capability
FRP	Full-Rate Production
FY	Fiscal Year
FYDP	Future Years Defense Program
ICD	Initial Capabilities Document
ICE	Independent Cost Estimate
Inc	Increment
IOC	Initial Operational Capability
IT	Information Technology
JROC	Joint Requirements Oversight Council
KPP	Key Performance Parameter
KSA	Key System Attribute

LRIP	Low-Rate Initial Production
MDA	Milestone Decision Authority
MDAP	Major Defense Acquisition Program
MILCON	Military Construction
N/A	Not Applicable
O	Objective
O&M	Operations and Maintenance
O&S	Operating and Support
ORD	Operational Requirements Document
OSD	Office of the Secretary of Defense
PAUC	Program Acquisition Unit Cost
PB	President's Budget
PE	Program Element
PEO	Program Executive Officer
PM	Program Manager
POE	Program Office Estimate
R&MF	Revolving and Management Funds
RDT&E	Research, Development, Test, and Evaluation
SAR	Selected Acquisition Report
SCP	Service Cost Position
T	Threshold
TBD	To Be Determined
TY	Then Year
U.S.	United States
U.S.C	United States Code
UCR	Unit Cost Reporting
USD(A&S)	Under Secretary of Defense (Acquisition and Sustainment)

(U) Program Description**Full Name**

Guided Multiple Launch Rocket System/
Guided Multiple Launch Rocket System
Alternative Warhead

PNO

260

Lead Component

Department of the Army

Joint Program

No

Adaptive Acquisition Pathway

Major Capability Acquisition

Acquisition Category

IC

Acquisition Status

Active Acquisition

Short Name

GMLRS/GMLRS AW

Milestone Decision Authority

Component Acquisition Executive

Program Executive Office

PEO Missiles & Space (M&S)

International Partners

Australia, Bahrain, Estonia, Finland, France,
Germany, Italy, Japan, Jordan, Lithuania,
Poland, Romania, Singapore, Taiwan, Ukraine,
United Arab Emirates, United Kingdom

Acquisition Type

Major Defense Acquisition Program

Acquired Systems

GMLRS/AW

Mission

GMLRS rockets provide field artillery units with medium- and long-range (70+ kilometers) surface-to-surface fires. Deployed from the Multiple Launch Rocket System (MLRS) and the High Mobility Artillery Rocket System (HIMARS) launchers. Transported in and fired from a Launch Pod Container that contains six rockets. There are currently three fielded variants: Dual-Purpose Improved Conventional Munition (DPICM), Unitary and Alternative Warhead (AW).

(U) Responsible Office

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(U) Executive Summary

Program Highlights Since Last Report

This is the initial MSAR submission for the Guided Multiple Launch Rocket System (GMLRS) MDAP. The requirements are stable, and funding is adequate to meet cost, schedule, and performance objectives established in the current approved Acquisition Program Baseline (APB). An APB update to increase procurement quantities is in process. In FY 2023, the program delivered more than 6,850 GMLRS rockets to the U.S. Army and Foreign Military Sales customers. Deliveries were initially hindered by industry solid rocket motor production challenges, but the program worked closely with the prime contractor and subcontractors to resolve the issues. Contractually, orders for FY 2023 and FY 2024 were placed in March and April of 2023, via Unfinalized Contract Actions, to synchronize the procurements and economic ordering within the supply chain system. Combined, the FY 2023 and FY 2024 production contract orders have a not to exceed value of \$4.7B. Additionally, the program continued efforts to fulfill statutory M-Code requirements through award of an M-Code contract in December 2023, which focuses on modernizing the existing GPS capability within GMLRS rockets starting in FY 2027. Finally, during this period the program continued System Qualification Testing at White Sands Missile Range for the Extended Range GMLRS. A total of four tests were conducted with follow-on plans to conduct Operational Testing in 2024. There is no increased risk to the GMLRS program since the last SAR.

(U) History of Significant Developments Since Program Inception

Date	Description
December 2023	The program delivered more than 6,800 rockets in Calendar Year 2023.
December 2023	The Guided Multiple Launch Rocket System (GMLRS) Program awarded the FY 2022 Delivery Order Modification to the Lockheed Martin Corporation on 22 December 2023. This action definitizes Unfinalized Contract Action (UCA) W31P4Q-21-D-0003/ W31P4Q-22-F-0098 P00008 for the Build to Print (B2P) pods. As a result of this modification, the total obligated amount to definitize B2P is \$61,089,306.
November 2023	The program received authorization from the Army Acquisition Executive to separate Standard Range GMLRS and Extended Range GMLRS into separate subprograms in FY 2025. GMLRS will remain as a single Major Defense Acquisition Program (MDAP) with Standard GMLRS and Extended Range GMLRS as subordinate MDAP subprograms starting in late FY 2025.
October 2023	Extended Range GMLRS continued system qualification flight testing in FY 2023 and will start the initial set of Operational Flight tests in FY 2024.
April 2023	Lot 19 (FY24) GMLRS Production modification to UCA was awarded on April 27, 2023, for 14,004 Tactical Rockets and 600 training rockets for U.S and International Customers which obligated \$1.1B or 37% of the \$2.9B NTE value.
March 2023	Lot 18 (FY23) GMLRS Production, modification to UCA was awarded on 31 March 2023, for 10,002 Tactical Rockets and 1,314 training rockets for U.S and International Customers which obligated \$866M or 48.4% of the \$1.8B NTE value.
March 2022	Lot 17 (FY22) GMLRS Production option, with an NTE value of \$918.256M, was awarded as a Firm Fixed Price with additional Cost Plus CLINs. The award procures 6,792 tactical rockets and 2,496 training rockets for U.S and International Customers.

Date	Description
December 2021	ER GMLRS System Critical Design Review (CDR) conducted all Critical Issues closed.
May 2021	Successful ERG Engineering Design Test 3 test flight conducted; all objectives met in end-to-end test event.
April 2021	GMLRS Enhanced Alternate Warhead (EAW) Award - W9124P-19-9-0001, as an Other Transaction Agreement (OTA) and Cost-Plus Fixed Fee (CPFF) Contract with a \$78.9M budget.
March 2021	GMLRS FY21 Production Contract Award - W31P4Q-21-D-0003, as a Firm Fixed Price contract for procurement of 9,114 tactical rockets and 2,022 training rockets for US and International Customers. This requirement includes the increase of AW warhead tooling to maximize the capacity to 9,402 warheads per guidance from Army Capability Manager and Army G8. Procurement of AW rockets prioritized over Unitary (66,289 AW and 18,413 Unitary) per guidance in Final FY2023/2027 Total Munitions Requirements (TMR) guidance dated August 25, 2021.
July 2019	Missile Supplemental Notice 19-08 Issued on GMLRS DPICM reclassified to Code N (for emergency combat use only).
May 2019	Per guidance from Army Capability Manager and Army G8 in the FY22-26 TMR, PM STORM has directed the prime contractor to increase AW maximum capacity to 9,402 warheads for the FY21 Production contract Procurement of AW rockets prioritized over Unitary (66,289 AW and 18,423 Unitary) per guidance in Final FY2022/2026 Total Munitions Requirements (TMR) guidance.
March 2019	ER GMLRS Modification Phase III development and qualification contract awarded to complete the system.
August 2018	ER GMLRS Phase II development contract awarded to finalize performance requirements definition and complete the system.
June 2018	The JROC approved an updated GMLRS AW CDD in lieu of CPD which changed the GMLRS Maximum Range (Objective) KPP to 200-Km.
June 2017	The GMLRS/GMLRS AW program experienced breaches in RDT&E costs and PAUC as the result of additional Army funding in FY 2018 through FY 2022 to support modification and testing of the ER GMLRS. A PDR submitted to the MDA.
June 2017	PFRMS PM was directed by The Deputy Secretary of Defense to submit a Modification Memorandum authorizing Extended Range (ER) GMLRS rocket enhanced capabilities as a modification vs a new build, with capabilities of 140-Km range, multi-domain. The memorandum was signed and approved by AAE.
December 2016	GMLRS AW approved for Full Materiel Release.
May 2015	The GMLRS AW program successfully completed the combined Milestone C and FRP Decision Review on April 8, 2015. The GMLRS AW Cost Position approved on April 15, 2015. The ADM to enter Production and Deployment and begin FRP and the revised APB approved by the AAE on May 20, 2015.
December 2014	The GMLRS AW program successfully completed all testing for the EMD phase, and IOT&E completed. The reliability assessed at 0.97 for IOT&E and an overall reliability of 0.99 for EMD. This exceeds the CDD requirement of 0.95.
February 2012	Milestone B Decision Review executed, approving entry into EMD.
April 2011	The GMLRS AW Sole Source J&A for the EMD Contract to Lockheed Martin Missiles and Fire Control-Dallas (LMMFC-D) approved by the AAE.
February 2011	GMLRS RDT&E funding increase caused a Total RDT&E cost breach. The increase funded technological enhancements to the GMLRS Unitary based on emerging requirements currently in the Joint Capabilities Integration Development System process. Future increments of GMLRS will utilize these enhancements to further reduce collateral damage and expand target options for the Warfighter.

Date	Description
February 2010	The GMLRS class Justification & Approval (J&A) approved, for the procurement of continued FRP of the GMLRS Unitary for FY 2010 through FY 2012.
December 2009	The GMLRS DPICM program completed its last production.
September 2009	AAE granted GMLRS AW approved to enter the Technology Development at Milestone A.
December 2008	GMLRS Unitary FRP Decision approved, and IOC was achieved.
June 2008	A GMLRS AW Directed Requirement Memorandum signed by the Army Deputy Chief of Staff for Operations, Plans and Training validating the requirement for GMLRS AW.
May 2007	GMLRS Unitary Milestone C and LRIP Decision ADM approved the Acquisition Strategy and APB.
April 2007	The GMLRS program successfully obtained Nunn-McCurdy Certification, the Denfensive Acquisition Executive (DAE) signed an ADM approving the continuation of the restructured GMLRS program as ACAT IC. The DAE directed GMLRS to restructure the program to Buy-to- additional rocket quantities as can be afforded in each year, FY 2008 through FY 2013. The DAE further instructed the PM actively pursue the potential for a multi-year procurement strategy beginning with Full Rate Production.
February 2007	The PEO Missiles and Space submitted a Program Deviation Report (PDR) to the MDA, provided notification that the GMLRS program anticipates a critical Nunn -McCurdy unit cost breach. Consequently, the GMLRS program completed an intense review by a certification team composed of five separate Integrated Product Teams.
January 2007	Title 10, U.S. Code, requirement for Insensitive Munition (IM) compliant. JROC approved IM waiver for FY 2007 through FY 2008. GMLRS program incorporated the development and procurement of an IM Warhead for Unitary and investigated other IM related improvements. The GMLRS program submitted an IM Plan of Action and Milestones and a request for IM waiver as part of the PEO Missiles and Space IM Strategic Plan.
September 2006	Deliveries of GMLRS Urgent Materiel Release (UMR) Unitary rockets began. Deliveries in response to a second request received from U.S. Central Command for additional UMR Unitary rockets for use in theater.
September 2005	The first combat fire mission was conducted using GMLRS Unitary rockets against enemy positions in Iraq at a distance of greater than 50 Km, eight rockets fired, destroying insurgent strongholds, and killing enemy insurgents. Collateral damage to adjacent structures was minimal.
June 2005	The Test and Evaluation Master Plan (TEMP) supporting the GMLRS DPICM Full Rate Production Decision, approved by the Director of Operational Test and Evaluation.
March 2004	The GMLRS Unitary Test and Evaluation Master Plan was approved.
November 2003	The JROC Memorandum published and accepted the Army's proposed change to the threshold average hazardous dud rate for sub-munitions. The change amends performance requirements for ranges between 20-60 kilometers (Km) to less than 2 percent with an objective of 0 percent. The threshold average hazardous dud rate must be less than 4 percent with an objective of 0 percent for ranges between 15-20 kilometers (Km) and 60-70 Km.
March 2003	Army System Acquisition Review Council approved entry into LRIP for GMLRS DPICM and entry into System Development and Demonstration for GMLRS Unitary and Acquisition Decision Memorandum signed.
December 2002	The GMLRS program was re-designated ACAT IC
December 2001	A special Army Systems Acquisition Review Council (ASARC) was held, during which the Acting Army Acquisition Executive (AAE) and the Vice Chief of Staff of the Army reviewed the Nunn-McCurdy Unit Cost breach and initiated Secretary of Defense certification procedures.
November 2000	The GMLRS program restructured due to development problems experienced by the

Date	Description
	previous guidance set subcontractor
September 1998	A Memorandum of Understanding was finalized between the U.S., United Kingdom, Ireland, Germany, France and Italy, which resulted in a November 1998 EMD contract award for the international development program to produce a common product with sharing and minimizing costs and risks
June 1998	Milestone II Decision Review executed, approving GMLRS Dual Purpose Improved Conventional Munition (DPICM) entry into EMD.

(U) Schedule**(U) Schedule Events**

Events		APB Change 2 (Current) 5/20/2015 Objective / Threshold		Current Estimate 12/31/2023	Actual
DPICM					
Full Rate Production Decision (1)	FRP Decision	Jun 2005	Dec 2005	-	31 Dec 2005
Initial Operational Capability (1)	IOC	Dec 2005	Jun 2006	-	30 Jun 2006
Milestone C (1)	MS C	Mar 2003	Sept 2003	-	30 Sept 2003
Alternative Warhead					
Milestone B (2)	MS B	Dec 2011	Jun 2012	-	30 Jun 2012
Milestone C (3)	MS C	May 2015	May 2015	-	31 May 2015
Initial Operational Capability (3)	IOC	Dec 2016	Jun 2017	-	30 Jun 2017
Full Rate Production Decision (3)	FRP Decision	May 2015	May 2015	-	31 May 2015
GMLRS Milestone II EMD	MS II	Mar 1998	Sept 1998	-	30 Sept 1998
UNITARY					
Milestone B (1)	MS B	Mar 2003	Sept 2003	-	30 Sept 2003
Full Rate Production Decision (2)	FRP Decision	Sept 2008	Mar 2009	-	31 Mar 2009
Milestone C (2)	MS C	May 2007	Nov 2007	-	30 Nov 2007
Initial Operational Capability (2)	IOC	Aug 2008	Feb 2009	-	28 Feb 2009

Notes

FRP 15 - Deliveries complete

Schedule Deviation Explanation: The end of the delivery period moved to the left from December 2022 to June 2023 due to Insensitive Munitions Propulsion motor delivery delays.

Schedule Baseline Deviation Explanation

None

(U) Current Significant Schedule Risks and Risks Identified at Milestones/Decisions

Event	Date	Description
FRP	10/1/2022	#1629 - GMLRS Launch Pod Container (LPC) Shortage: Restarting LPC production for the FY23 GMLRS lot buy is critical to continued GMLRS production. The product office projects the supply of useable LPCs recovered from M26 demilitarization will be exhausted at the end of our FY22 Lot deliveries (late CY 2024).
FRP	3/1/2022	#1523 - M-Code Guidance Set (MGS) Cut into Production: MGS is a critical

		obsolescence effort to continue GMLRS production beyond FY27 when the current GMLRS guidance set can no longer be produced.
FRP	2/1/2022	#1649 - Guidance Set Refresh (GSR) Cut into Production: Guidance Set Refresh increases the production life of the current GMLRS guidance set, avoids GMLRS production break and allows time to complete the M-Code Guidance Set (MGS) design, system qualification.

(U) Performance**(U) Performance Attributes**

UNITARY		
Range		
Min (Km) (2)		APA
Current Estimate 12/31/2023		10Km
Demonstrated Performance 8/1/2023		15Km
APB Change 2 (Current) 5/20/2015	Objective	10
	Threshold	15
Max (Km) (2)		APA
Current Estimate 12/31/2023		60Km
Demonstrated Performance 8/1/2023		70Km
APB Change 2 (Current) 5/20/2015	Objective	70
	Threshold	60
Reliability (2)		KPP
Current Estimate 12/31/2023		93%
Demonstrated Performance 8/1/2023		93%
APB Change 2 (Current) 5/20/2015	Objective	.95
	Threshold	.92
Effectiveness (1)		KPP
Current Estimate 12/31/2023		30%
Demonstrated Performance 8/1/2023		30%
APB Change 2 (Current) 5/20/2015	Objective	30%
	Threshold	Functional Kill
Alternative Warhead		
Range		
Max (Km) (3)		APA
Current Estimate 12/31/2023		60Km
Demonstrated Performance 8/1/2023		70Km

APB Change 2 (Current)	Objective	70	
5/20/2015	Threshold	60	
Min (Km) (3)			APA
Current Estimate 12/31/2023		10	
Demonstrated Performance 8/1/2023		15	
APB Change 2 (Current)	Objective	10	
5/20/2015	Threshold	15	
Hazardous Dud Rate (2)			KPP
Current Estimate 12/31/2023		0%	
Demonstrated Performance 8/1/2023		0%	
APB Change 2 (Current)	Objective	0%	
5/20/2015	Threshold	<1%	
Effectiveness (2)			KPP
Current Estimate 12/31/2023		30%	
Demonstrated Performance 8/1/2023		30%	
APB Change 2 (Current)	Objective	30%	
5/20/2015	Threshold	Functional Kill	
Reliability (3)			KPP
Current Estimate 12/31/2023		95%	
Demonstrated Performance 8/1/2023		99%	
APB Change 2 (Current)	Objective	.95	
5/20/2015	Threshold	.92	
DPICM			
Range			
Max (Km) (1)			APA
Current Estimate 12/31/2023		-	
Demonstrated Performance -		-	
APB Change 2 (Current)	Objective	70	
5/20/2015	Threshold	60	
Min (Km) (1)			APA

Current Estimate 12/31/2023		-	
Demonstrated Performance -		-	
APB Change 2 (Current) 5/20/2015	Objective	10	
	Threshold	15	
Hazardous Dud Rate (1)			KPP
Current Estimate 12/31/2023		-	
Demonstrated Performance -		-	
APB Change 2 (Current) 5/20/2015	Objective	0%	
	Threshold	2%/4%	
Reliability (1)			KPP
Current Estimate 12/31/2023		-	
Demonstrated Performance -		-	
APB Change 2 (Current) 5/20/2015	Objective	.95	
	Threshold	.92	
Effectiveness			
(Expected Fractional Damage [EFD])			APA
Current Estimate 12/31/2023		-	
Demonstrated Performance -		-	
APB Change 2 (Current) 5/20/2015	Objective	30%	
	Threshold	30%	

(U) Requirement Source:

Sponsor(s): None

1. Document Type Not Provided

Notes: ORD dated November 14, 2003 (includes Dual Purpose Improved Conventional Munitions), Multiple Launch Rocket System Guided Unitary Rocket ORD dated May 16, 2007 (in lieu of CPD), and GMLRS System Alternative Warhead Increment III CDD dated November 8, 2011

Notes

GMLRS DPICM is NOT coded as a breach since it has been out of production since 2005. The ten-year shelf-life has been extended to 18 years. Remaining GMLRS DPICM rockets have been transferred to Condition Code N (For Emergency Wartime Use Only). COCOM Commanders have been briefed and accept GMLRS DPICM degraded reliability. GMLRS Unitary shelf life has been

extended to 15 years.

The GMLRS Reliability Working Group Testing completed reliability Scoring on August 1, 2023:

The GMLRS Unitary Reliability was assessed at 0.93 (199 Flight Success / 214 Flight Attempts).

The GMLRS AW Reliability was assessed at 0.99 (109 Flight Success / 110 Flight Attempts).

GMLRS M30 DPICM rocket testing was not funded.

GMLRS AW Capability Development Document (CDD) in lieu of Capability Production Development (CPD) update approved June 27, 2018 (JROCM 068-18), to increase Maximum (Objective) Range KPP from 70Km to 200Km in support of Extended Range GMLRS and includes all variants of the GMLRS Family of Munitions.

AW - Alternative Warhead

CDD - Capability Development Document

CPD - Capability Production Development

DPICM - Dual Purpose Improved Conventional Munitions

IOT&E - Initial Operational Test and Evaluation

KPP - Key Performance Parameter

Max (Km) - Maximum Kilometers

Min (Km) - Minimum Kilometers

Performance Deviation Explanation

None

(U) Acquisition Budget Estimate**(U) Total Acquisition Estimates and Quantities**

Category (\$M) Base Year: 2003	APB Change 2 (Current) 5/20/2015 CY\$ obs Objective / Threshold		Current Estimate PB 2025 CY\$ obs / TY\$ obs	
	RDT&E	826.7	909.4	1,198.7*
Procurement	4,367.1	4,803.8	9,719.9*	14,857.1
MILCON	0.0	0.0	-	-
O&M	0.0	-	20.7*	33.2
R&MF	-	-	-	-
Total Acquisition	5,193.8	-	10,939.3	16,416.6
Program Acquisition Unit Cost	0.118	0.130	0.119	0.179
Average Procurement Unit Cost	0.100	0.110	0.106	0.163
Program End-Item Quantity				
Development	376		461	
Procurement	43560		91320	
O&M-Acquired	-		-	

* **Baseline Deviation**

Budget Notes

Funding in the GMLRS December 2023 MSAR is based on PB25 3.3 Lock dated March 14, 2024.

Quantity Notes

The Deputy Chief of Staff, G-8 rescinded the GMLRS Army Procurement Objective on November 16, 2018, and replaced it with the Army Total Munitions Requirement (TMR). The estimate for Procurement quantity therefore changes annually when the TMR is published.

In support of the Final FY 2029 TMR, the GMLRS program will procure rockets at a can-buy rate for budget years through FY 2029.

Quantities associated with Tranche funds in FY 2022 and FY 2023 are classified and all quantities and funds for those fiscal years are excluded.

RDT&E – The development quantity current estimate increased over the current APB to support development and qualification of ER GMLRS, EAW, and ER GMLRS/EAW.

Cost Baseline Deviation Explanation

Parameter	Explanation
Acquisition Cost (RDT&E)	In FY 2017, the GMLRS program experienced a deviation to RDT&E cost due to additional funding to support modification and testing of the ER GMLRS program. The total RDT&E and PAUC threshold breaches were due to the additional President's Budget 2018 funding received in support of new program requirements. These requirements included the GMLRS family of munitions extended range modification and the transition of Aviation and Missile Research, Development, and Engineering Center developed Army Science and Technology improvements
Acquisition Cost (Procurement)	There has been an increase in cost since the program was baselined with the primary contributors including: an increase in quantities, the requirement for Insensitive Munition (IM) compliance, the introduction of the Extended Range GMLRS (ERG), and the need to manufacture Launch Pod Containers (LPC). The GMLRS Army Procurement Objective (APO) of 43,560 rockets was rescinded and the Army Acquisition Objective (AAO) reaffirmed in a memo dated November 16, 2018. In the same memo, the program was then directed to maintain inventory levels relative to the TMR through FY50. The current FY29 TMR requires a total GMLRS inventory of 125,538 rockets. As directed by DoD Directive 5000.01, 12 May 2003, the GMLRS program introduced Insensitive Munition (IM) compliant variants of the Unitary and AW GMLRS rockets. First cut-in on the FY18 GMLRS production contract, all GMLRS rockets procured by the Army are now IM compliant. Capabilities Development Document (CDD), Rev 2 dated September 21, 2018 in lieu of Capability Production Document (CPD) for GMLRS Alternative Warhead (AW) Extended Range increases objective max range to 200 KM. Extended Range GMLRS (ERG) variant will enter production starting with the FY24 production contract. Prior to FY23, GMLRS has benefitted from the reuse of stockpiled M26 LPCs. Due to increased demand, M26 LPC inventories are exhausted at the completion of the production lot 17 (FY22) procurement contract; therefore, GMLRS will utilize newly-manufactured LPCs on production lot 18 (FY23 Procurement) and beyond. A new Army Cost Position will be developed to support an FY25 program rebaseline.
Acquisition Cost (O&M)	O&M cost not estimated in original APB.

(U) Risk and Sensitivity Analysis

Current Procurement Estimate Risks (12/31/2023)	
1	Guidance Set Refresh (GSR) Cut into Production: Closure Criteria: Qualified software, hardware, and firmware to mitigate obsolescence Planned Closure: 2QFY25 Actions: Development, qualification, test ongoing through 2QFY25
2	M-Code Guidance Set (MGS) Cut into Production: Closure Criteria: Qualified software, hardware, and firmware to mitigate obsolescence Planned Closure: 3QFY27 Actions: Conduct last time buy of obsolete guidance set components in FY24 to extend GSR production through FY27, qualification of MGS in 3QFY27
3	Launch Pod Container Shortage: Closure Criteria: Qualified launch pod container cut into production (build-to-print pod) Planned Closure: 3QFY24 Actions: Qualification, test ongoing through 3QFY24
Current Baseline Risks (5/20/2015)	

No risks are identified to the Current Baseline Estimate.

Revised Original Baseline Risks (6/27/2007)

The GMLRS program successfully obtained its Nunn-McCurdy certification on April 26, 2007, when the DAE approved the ADM to restructure the GMLRS program as ACAT IC program. The DAE directed GMLRS to restructure the program to "buy-to-budget" additional rocket quantities as can be afforded each given year, FY 2008 through FY 2013. The majority of the Nunn-McCurdy breach is a direct result of fact-of-life decrements imposed on GMLRS. The GMLRS program experienced a 70% reduction in procurement quantities between the FY 2007 PB and the FY 2008 PB request. GMLRS FY 2007 PB funded 140,004 rockets (Army Acquisition Objective), while the FY 2008 PB request supports the acquisition of 43,560 systems (Acquisition Procurement Objective). After the certification there was a low to moderate risk. The Revised Original Estimate included the GMLRS Unitary production. The May 2, 2007 ADM for GMLRS Unitary Milestone C and LRIP approved the Acquisition Strategy and the APB. It further stated the program is fully funded and the GMLRS program costs are affordable throughout the life cycle.

(U) Unit Costs**(U) Current Estimate Compared with Current Baseline**

Category (CY\$M) Base Year: 2003	Current Baseline 05/20/2015	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	5,193.8	10,939.3	
Program Quantity	43,936	91,781	
PAUC	0.118	0.119	1.01%
Average Procurement Unit Cost			
Procurement Cost	4,367.1	9,719.9	
Procurement Quantity	43,560	91,320	
APUC	0.100	0.106	6.44%

(U) Current Estimate Compared with Original Baseline

Category (CY\$M) Base Year: 2003	Original Baseline 06/27/2007	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	4,578.4	10,939.3	
Program Quantity	43,795	91,781	
PAUC	0.105	0.119	13.51%
Average Procurement Unit Cost			
Procurement Cost	3,966.7	9,719.9	
Procurement Quantity	43,560	91,320	
APUC	0.091	0.106	16.96%

Notes

The actual rocket buy quantities and unit costs are subject to the mix between standard range AW and Unitary warheads.

The split-out APUC and PAUC of the GMLRS variants are:

APUC

GMLRS DPICM (\$0.141M (BY\$ 2003))

GMLRS UNITARY (\$0.096M (BY\$ 2003))

GMLRS AW (\$0.101M (BY\$ 2003))

GMLRS Enhanced AW (\$0.111M (BY\$ 2003))

Extended Range GMLRS Unitary (\$0.327 (BY\$ 2003))

Extended Range GMLRS AW (\$0.317 (BY\$ 2003))

Extended Range GMLRS Enhanced AW (\$0.317 (BY\$ 2003))

PAUC

GMLRS DPICM (\$0.132M (BY\$ 2003))

GMLRS UNITARY (\$0.107M (BY\$ 2003))

GMLRS AW (\$0.114M (BY\$ 2003))

Extended Range GMLRS Unitary (\$0.454 (BY\$ 2003))

Extended Range GMLRS AW/Enhanced AW (\$0.445 (BY\$ 2003))

All GMLRS variants benefit from RDT&E funded system enhancements (modifications, upgrades, cost reduction initiatives) and those costs are allocated across all variants.

Additional funding will result in procurement of additional rockets.

(U) Life-Cycle Costs**(U) Operating and Support and Disposal Cost Estimates Compared with Baseline**

Category (\$M) Base Year: 2003	APB Change 2 (Current) 5/20/2015 CY\$ obs Objective / Threshold		Current Estimate CY\$ obs / TY\$ obs	
	Total O&S	204.8	225.3	742.2*
Total Disposal	-	-	105.7	205.2

* Baseline Deviation

(U) Current Cost Estimate Sources**Operating and Support Cost**

Type: Component Cost Position

Approved by: CAA, July 31, 2018

Note: There is no antecedent system.

Disposal/Demilitarization Cost

Type: No estimate. To Be Determined

Operating and Support Baseline Deviation Explanation

The O&S cost deviation was initially reported in the December 2017 SAR and is due to an increase in quantities to support the Army Total Munitions Requirements (TMR). Stockpile Reliability Program (SRP) was previously funded using PROC dollars until 2 years after production of each individual variant ended. Beginning in FY 2028, all SRP costs shall be OMA funded. In addition, assumption for shelf life has been increased to 25 years, which creates a higher inventory level that can be sustained for a longer period.

Cost Notes

None

(U) Operating and Support Variance with Prior Estimate

(CY\$M) Base Year: 2003	Estimate	
Prior Estimate (12/31/2022)	768.4	
Current Estimate	742.2	
Category	Variance	Explanation
Unit-Level Manpower	0.0	None
Unit Operations	0.1	Update to cost estimating methodology.

(CY\$M) Base Year: 2003	Estimate	
Maintenance	-32.7	Decrease cost due to decreased inventories
Sustaining Support	-31.3	Decrease cost due to decreased inventories
Continuing System Improvements	14.0	Update to cost estimating methodology.
Other	0.0	None
Not Categorized	23.7	

(U) Operating and Support Cost Element Structure Estimates by Acquired System

(CY\$M) Base Year: 2003							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
GMLRS/AW	-	4.5	246.3	447.6	43.8	-	742.2
Program	-	4.5	246.3	447.6	43.8	-	742.2

(U) Annual Operating and Support Costs per Unit Compared with Antecedent System

No Data

(U) Operating and Support Cost Estimate Assumptions

No Data

Additional O&S Estimate Assumptions

None

Antecedent Estimate Assumptions

There is no antecedent system.

O&S Annual Cost Calculation Memo

None

(U) Technologies and Systems Engineering**(U) Current Significant Technical Risks and Risks Identified at Milestones/Decisions**

Event	Date	Description
MS C	5/31/2015	GMLRS AW Milestone C (May 2015): Sub-optimal program funding identified in the FY 2016 PB is below historical averages in FY 2015 through FY 2017. Decreased funding translates to lower rocket quantities and higher unit cost per annual contract. Failure to fund to the optimal rate could drive affordability concerns and cause second-tier subcontractors to not bid on GMLRS contracts. Secondly, material costs impact affordability since tungsten is a commodity with prices that fluctuate.
MS B	2/15/2012	GMLRS AW Milestone B (February 2012): Continuing Resolution Authority in FY 2012 has the potential to delay the award of the \$31M EMD contract, which would subsequently delay completion of EMD and subsequent production. Secondly, limited time between the expected FRP decision and the effective date of the DoD Cluster Munitions Policy prevents the Army from procuring "sufficient" inventory of GMLRS Alternative Warhead before the M30 GMLRS rockets are removed from inventory.
MS C	3/31/2007	GMLRS Unitary Milestone C (March 2007): The risk associated with Milestone C was related to the guidance set.
MS C	3/31/2003	GMLRS Dual Purpose Improved Conventional Munition Milestone C (March 2003): The risks associated with Milestone C were reliability of new grenades meeting 1% dud rate and the guidance set.
MS B	3/25/2003	GMLRS Unitary Milestone B (March 2003): The risk associated with Milestone B was related to the guidance set.

(U) Performing Activities and Contracts

(U) External Government Activities

None

(U) Contracts and Efforts

Contract Title	Contract Number / Effort	Contractor	Phase
ER GMLRS Phase 3	W31P4Q-19-C-0065 / 3	Lockheed Martin Dallas	Development
GMLRS Enhanced AW	W9124P-19-9-0001	KORD Technologies	Development
GMLRS FRP 15 Option 2	W31P4Q-18-C-0049 / 2	Lockheed Martin Dallas	Production
GMLRS FY21 Production Lot (FRP 16)	W31P4Q-21-D-0003 / 2	Lockheed Martin Dallas	Production
GMLRS FY22 Production Lot (FRP 17)	W31P4Q-21-D-0003	Lockheed Martin Dallas	Production
GMLRS FY23 Production Lot (FRP 18)	W31P4Q-23-D-0003 / 2	Lockheed Martin Dallas	Production
GMLRS FY24 Production Lot (FRP 19)	W31P4Q-23-D-0003 / 2	Lockheed Martin Dallas	Production

(U) Contract and Effort Identification, Price, Quantity and Performance

Contract Number: W31P4Q-19-C-0065 **Order Number:** -
Contract Title: ER GMLRS Phase 3 **Strategy:** FAR 16.5: Requirements
CAGE: 64059 - Lockheed Martin Dallas **Contracting Office:** DoD
City, State/Province: Grand Prairie , TX

Effort Number: 3 **Supported Phase:** Development
Type: Firm-Fixed-Price **Award Date:** March 28, 2019
Latest Modification Date: December 26, 2023 **Definitization Date:** April 17, 2020
Latest Modification No.: P00048 **Work Start Date:** March 28, 2019
Technical Data Rights: -
Notes: The ER GMLRS contract was definitized for \$150M. LM agreed to this amount and opted to expend Capital and IRAD funds on any additional costs to the ER GMLRS effort.

Initial Price (TY\$M) Target / Ceiling	Current Price (TY\$M) Target / Ceiling	Estimate at Completion (TY\$M) Contractor / PM	Initial Quantity	Current Quantity	Delivered Quantity
-	-	-	-	-	-

(U) Contract and Effort Identification, Price, Quantity and Performance

Contract Number: W9124P-19-9-0001 **Order Number:** -
Contract Title: GMLRS Enhanced AW **Strategy:** 10 USC 2373: Procurement

for Experimental Purposes

CAGE: 4CUP1 - KORD Technologies **Contracting Office:** DoD
City, State/Province: Huntsville, AL

Effort Number: - **Supported Phase:** Development
Type: Other Transaction Agreement **Award Date:** April 29, 2021
Latest Modification Date: August 13, 2021 **Definitization Date:** -
Latest Modification No.: 00004 **Work Start Date:** April 29, 2021
Technical Data Rights: -
Notes: None

Initial Price (TY\$M) Target / Ceiling	Current Price (TY\$M) Target / Ceiling	Estimate at Completion (TY\$M) Contractor / PM	Initial Quantity	Current Quantity	Delivered Quantity
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(U) Contract and Effort Identification, Price, Quantity and Performance					
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Contract Number:	W31P4Q-18-C-0049	Order Number:	-
Contract Title:	GMLRS FRP 15 Option 2	Strategy:	FAR 15: Negotiated Contracts
CAGE:	64059 - Lockheed Martin Dallas	Contracting Office:	DoD
City, State/Province:	Grand Prairie , TX		
Effort Number:	2	Supported Phase:	Production
Type:	Fixed-Price Incentive (Cost Based)	Award Date:	March 31, 2020
Latest Modification Date:	April 20, 2023	Definitization Date:	March 31, 2020
Latest Modification No.:	P00116	Work Start Date:	March 31, 2020
Technical Data Rights:	-		
Notes:	All deliveries have been received.		

Initial Price (TY\$M) Target / Ceiling	Current Price (TY\$M) Target / Ceiling	Estimate at Completion (TY\$M) Contractor / PM	Initial Quantity	Current Quantity	Delivered Quantity
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(U) Contract and Effort Identification, Price, Quantity and Performance					
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Contract Number:	W31P4Q-21-D-0003	Order Number:	W31P4Q-21-F-0147
Contract Title:	GMLRS FY21 Production Lot (FRP 16)	Strategy:	FAR 16.5: Indefinite Delivery Definite Quantity
CAGE:	64059 - Lockheed Martin Dallas	Contracting Office:	DoD
City, State/Province:	Grand Prairie, TX		
Effort Number:	2	Supported Phase:	Production
Type:	Firm-Fixed-Price	Award Date:	March 31, 2021

Latest Modification Date: March 22, 2023 Definitization Date: -
 Latest Modification No.: P00020 Work Start Date: March 31, 2021
 Technical Data Rights: -

Notes: FRP 16 is named GMLRS FY21 Production and was awarded as a new contract on March 26, 2021. GMLRS FY 2021 (FRP 16) is an Indefinite Delivery Indefinite Quantities award which supports 9114 GMLRS rockets and 2,022 LCRRPR for a total procurement of 11,136 tactical and training rockets. The contract provided for a priced production option to support the FY 2022 FRP requirements with multiple quantity points priced for added ordering flexibility. The option was awarded March 31, 2022, and definitized on June 30, 2022.

Initial Price (TY\$M) Target / Ceiling	Current Price (TY\$M) Target / Ceiling	Estimate at Completion (TY\$M) Contractor / PM	Initial Quantity	Current Quantity	Delivered Quantity
-	-	-	-	-	-

(U) Contract and Effort Identification, Price, Quantity and Performance

Contract Number: W31P4Q-21-D-0003 Order Number: W31P4Q22F0098
 Contract Title: GMLRS FY22 Production Lot (FRP 17) Strategy: FAR 16.5: Indefinite Delivery Definite Quantity
 CAGE: 64059 - Lockheed Martin Contracting Office: DoD
 City, State/Province: Grand Prairie, TX
 Effort Number: - Supported Phase: Production
 Type: Firm-Fixed-Price Award Date: March 31, 2022
 Latest Modification Date: December 22, 2023 Definitization Date: June 30, 2022
 Latest Modification No.: PZ0023 Work Start Date: March 31, 2022
 Technical Data Rights: -
 Notes: GMLRS FY22 Production (FRP 17) Delivery Order was awarded March 31, 2022, for 6,792 GMLRS and 2,496 training rockets for a total of 9,288. The contract was awarded as an Undefined Contract Action with a not to exceed value of \$918.3M. The Delivery Order was definitized on June 30, 2022, for \$916.6M. GMLRS rockets support Army, USMC and FMS.

Initial Price (TY\$M) Target / Ceiling	Current Price (TY\$M) Target / Ceiling	Estimate at Completion (TY\$M) Contractor / PM	Initial Quantity	Current Quantity	Delivered Quantity
-	-	-	-	-	-

(U) Contract and Effort Identification, Price, Quantity and Performance

Contract Number: W31P4Q-23-D-0003 Order Number: W31P4Q-23-F-0006
 Contract Title: GMLRS FY23 Production Lot (FRP 18) Strategy: FAR 16.5: Indefinite Delivery Definite Quantity
 CAGE: 64059 - Lockheed Martin Contracting Office: DoD
 City, State/Province: Grand Prairie, TX
 Effort Number: 2 Supported Phase: Production

Type: Firm-Fixed-Price **Award Date:** October 31, 2022
Latest Modification Date: December 20, 2023 **Definitization Date:** -
Latest Modification No.: P00009 **Work Start Date:** October 31, 2022
Technical Data Rights: -

Notes: GMLRS FY 23 Production (FRP 18) Delivery Order was awarded October 21, 2022, for 10,002 GMLRS and 1,362 training rockets for a total of 11,364. The total deliver order value will not exceed the FY 2023 undefinitized price of \$1,843,240,341. This Undefinitized Contract Action delivery order authorizes the Contractor to expend funds up to \$1,288,372,574. GMLRS rockets support Army, USMC, Coop Agreement and FMS

Initial Price (TY\$M) Target / Ceiling	Current Price (TY\$M) Target / Ceiling	Estimate at Completion (TY\$M) Contractor / PM	Initial Quantity	Current Quantity	Delivered Quantity
-	-	-	-	-	-

(U) Contract and Effort Identification, Price, Quantity and Performance

Contract Number: W31P4Q-23-D-0003 **Order Number:** W31P4Q-23-F-0024
Contract Title: GMLRS FY24 Production Lot (FRP 19) **Strategy:** FAR 16.5: Indefinite Delivery Definite Quantity
CAGE: 64059 - Lockheed Martin **Contracting Office:** DoD
City, State/Province: Grand Prairie, TX

Effort Number: 2 **Supported Phase:** Production
Type: Firm-Fixed-Price **Award Date:** October 31, 2022
Latest Modification Date: June 14, 2023 **Definitization Date:** -
Latest Modification No.: P00003 **Work Start Date:** October 31, 2022
Technical Data Rights: -

Notes: GMLRS FY 24 Production (FRP 19) Delivery Order was awarded October 31, 2022, to start procurement of long lead items (Advanced Procurement funds). The terms of this delivery order are undefinitized and subject to negotiation and definitization, and the Government's full order inclusive of configuration mix was placed on April 27, 2023, via modification P00002 for 4,004 GMLRS and 600 training rockets for a total of 14,604. The total deliver order value will not exceed the FY 2024 undefinitized price of \$2,863,176,425. This Undefinitized Contract Action delivery order authorizes the Contractor to expend funds up to \$1,874,471,074. GMLRS rockets support Army, USMC, Coop Agreement and FMS

Initial Price (TY\$M) Target / Ceiling	Current Price (TY\$M) Target / Ceiling	Estimate at Completion (TY\$M) Contractor / PM	Initial Quantity	Current Quantity	Delivered Quantity
-	-	-	-	-	-

(U) Production**(U) Low-Rate Initial Production**

	Original LRIP Determination	Current LRIP Determination
Total LRIP Quantity	13,998	4,445
Date	3/24/2003	2/19/2012
Reference	GMLRS DPICM MS-C, Acquisition Decision Memorandum (ADM)	Milestone B, Acquisition Decision Memo (ADM)
LRIP Period	FY 2003 - 2007	FY 2005 - 2009
Total Procurement Quantity	140,004	43,560
LRIP Percentage of Total	10.0%	10.2%

Rationale if LRIP Quantity Exceeds 10% of Total Procurement Quantity (Current Determination)

The GMLRS DPICM Milestone C ADM signed on March 24, 2003, approved an LRIP quantity not to exceed 13,998 rockets. This quantity was based on the Army Acquisition Objective of 140,004 rockets. The actual GMLRS DPICM LRIP quantity is 1,961 rockets.

The GMLRS Unitary Milestone C ADM signed May 2, 2007, approved an LRIP quantity not to exceed 3,480 rockets based on the total expected procurement quantity of 34,848. The actual GMLRS Unitary LRIP quantity is 2,484 rockets.

The GMLRS AW Milestone B ADM signed on February 19, 2012, approved an LRIP quantity of 498 rockets. However, the Acquisition Strategy for GMLRS AW signed on January 7, 2013, states the program will conduct the Initial Operational Test and Evaluation (IOT&E) during the EMD phase and combine Milestone C with the FRP Decision Review. Therefore, no LRIP is needed. Necessary assets were procured to support IOT&E during EMD.

LRIP Notes

None

(U) Deliveries and Expenditures**(U) Acquisition Funding**

	Total Estimate	Actual to Date	Actual, Percent Complete
Years Appropriated	21	26	123.8%
Appropriations (TY, \$M)	16,416.6	16,416.6	100.0%
Expenditures (TY, \$M)	16,416.6	10,178.7	62.0%

(U) End Items Delivered

	Total Required	Planned to Date	Actual to Date	Actual, Percent Complete
Development	461			
GMLRS/AW		399	399	
Procurement	91,320			
GMLRS/AW		55,620	49,536	
Total	91,781	56,019	49,935	54.4%

Notes

Actual deliveries to date lag the planned to date quantity due to solid rocket motor production issues.

(U) International Program Aspects

General Memo

All International Program quantities are listed as rocket pods. The rocket pod refers to the launch pod container that consists of six guided rockets.

Only the U.S. and the United Arab Emirates (UAE) procured and continue to maintain stockpiles of M30 GMLRS DPICM pods.

Two additional variants of GMLRS were developed by the U.S. Army: the M31A1 GMLRS Unitary and M30A1 GMLRS AW.

The following nations procured and continue to maintain stockpiles of M31A1 GMLRS Unitary pods: Bahrain, France, Finland, Germany, Italy, Japan, Jordan, Romania, Singapore, UAE, UK and U.S.

The U.S., Jordan and Finland procured and continue to maintain stockpiles of M30A1 GMLRS AW.

Exportability and Business Issues

Business: Utilization of Undefined Contract Actions (UCAs) for funded FMS requirements results in funding from partner nations being insufficient to cover the Not-To-Exceed unit cost pending formal contract definitization. The higher projected unit costs result in the need to execute case amendments, which are exceedingly slow to develop and implement. Partner nations are often found themselves in the position of not having the budget to support the higher unit price prior to definitization of contract. Finally, the longer durations to definitization results in FMS funding being held for an extended period because definitization takes a year or more and this presents additional financial burdens to partner nations.

Is design for international exportability planned? Yes Industry/Partner Exportability Cost-Sharing? Yes

Program Protection: Technology Security and Foreign Disclosure Issues

There are no Tech Security & Foreign Disclosure (TSFD) issues to report.

(U) Agreements

Activity Date	Type	Agreement Number	International Partner(s)	Quantity	Funding (TY\$M)
5/8/2023	ICP MOU	GIPR052UK	-	-	-
4/27/2023	FMS LOA	NW-B-VIA	-	-	-
3/22/2023	FMS LOA	TW-B-BDJ	-	-	-
3/10/2023	FMS LOA	PL-B-UEF	-	-	-
1/12/2023	FMS LOA	EN-B-UFG	-	-	-
1/6/2023	FMS LOA	LH-B-UEG	-	-	-
11/30/2022	FMS LOA	NB-B-VCC	-	-	-
11/21/2022	FMS LOA	AT-B-UMK	-	-	-

2/16/2022	FMS LOA	FI-B-VBB	-	-	-
7/16/2020	ICP MOU	GIPR024GE	-	-	-
4/13/2020	FMS LOA	RO-B-UEZ	-	-	-
7/15/2019	ICP MOU	GIPR021GE	-	-	-
3/20/2019	FMS LOA	RO-B-UEW	-	-	-
3/8/2019	FMS LOA	BA-B-UKF	-	-	-
2/25/2019	FMS LOA	PL=B-UDJ	-	-	-
11/1/2018	ICP MOU	GIPR017GE	-	-	-
7/1/2018	FMS LOA	FR-B-WAN	-	-	-
3/6/2018	FMS LOA	RO-B-UEN	-	-	-
7/12/2017	ICP MOU	GIPR018GE	-	-	-
2/3/2017	FMS LOA	FI-B-VAR	-	-	-
12/22/2016	ICP MOU	GIPR012FR	-	-	-
2/10/2016	FMS LOA	FI-B-VAQ	-	-	-
2/10/2016	FMS LOA	FI-B-VAP	-	-	-
2/5/2016	FMS LOA	JO-B-YAY	-	-	-
3/12/2015	FMS LOA	AE-B-ZVE	-	-	-
2/28/2014	FMS LOA	SN-B-VFM	-	-	-
12/5/2012	ICP MOU	GIPR004IT	-	-	-
3/26/2012	FMS LOA	SN-B-VET	-	-	-
11/30/2011	ICP MOU	GIPR001IT	-	-	-
5/1/2011	FMS LOA	JA-B-XIJ	-	-	-
2/25/2011	FMS LOA	SN-B-VEN	-	-	-
11/24/2010	ICP MOU	GIPR010GE	-	-	-
2/1/2010	ICP MOU	GIPR011UK	-	-	-
1/27/2010	FMS LOA	JO-B-WYB	-	-	-
6/1/2009	ICP MOU	GIPR009GE	-	-	-
2/1/2009	FMS LOA	JA-B-XGH	-	-	-
1/12/2009	ICP MOU	GIPR-08UK	-	-	-
12/18/2008	ICP MOU	GIPR002FR	-	-	-
12/5/2008	ICP MOU	GIPR007UK	-	-	-
10/15/2008	ICP MOU	GIPR006GE	-	-	-
7/1/2008	ICP MOU	GIPR003UK	-	-	-
1/31/2008	FMS LOA	BA-B-UIW	-	-	-
12/15/2007	ICP MOU	GIPR001GE	-	-	-
11/21/2007	FMS LOA	SN-B-VDO	-	-	-
8/1/2007	FMS LOA	AE-B-ZUD	-	-	-
8/15/2005	ICP MOU	GIPR001UK	-	-	-

(U) Agreement Information

Partner(s): -

Activity Date:

5/8/2023

Type: International Cooperative Program: Memorandum of Understanding **Agreement Number:** GIPR052UK

Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting). On GIPR052UK A01 the UK is projected to procure a total 171 Pods/1,026 Unitary Rockets over a period of 4 years, FY23 - FY26. FY23/FY24 cost are currently based on a NTE contract. The contract is expected to definitize over the next 12 months. FY23 NTE contract award is \$17.8M for a quantity of 18 pods/108 Unitary Rockets. FY24 NTE contract award is \$21.3M for a quantity of 19 pods/114 Unitary Rockets.

(U) Agreement Information

Partner(s): - **Activity Date:** 4/27/2023
Type: Foreign Military Sales: Letter of Offer and Acceptance **Agreement Number:** NW-B-VIA
Notes: 300ea GMLRS-U pods awarded on FRP19 for a cost of \$341.46M; 282ea GMLRS-AW pods awarded on FRP 19 for a cost of \$348.48M.

(U) Agreement Information

Partner(s): - **Activity Date:** 3/22/2023
Type: Foreign Military Sales: Letter of Offer and Acceptance **Agreement Number:** TW-B-BDJ
Notes: 144 GMLRS pods added to TW-B-ZDJ March 2023. These munitions are projected to go on the FY25 GMLRS contract which puts estimated delivery in 2027

(U) Agreement Information

Partner(s): - **Activity Date:** 3/10/2023
Type: Foreign Military Sales: Letter of Offer and Acceptance **Agreement Number:** PL-B-UEF
Notes: Qty 68 GMLRS Unitary and Qty 27 GMLRS AW. These munitions are projected to go on the FY25 GMLRS contract which puts estimated delivery in 2027.

(U) Agreement Information

Partner(s): - **Activity Date:** 1/12/2023
Type: Foreign Military Sales: Letter of Offer and Acceptance **Agreement Number:** EN-B-UFG
Notes: Estonia procuring 18ea GMLRS-U pods for \$21.3M and 18ea GMLRS-AW pods for \$23.5M.

(U) Agreement Information

Partner(s): - **Activity Date:** 1/6/2023
Type: Foreign Military Sales: Letter of Offer and Acceptance **Agreement Number:** LH-B-UEG
Notes: Lithuania procuring 36ea GMLRS-U pods for \$41.1M and 36ea GMLRS-AW pods for \$45.6M.

(U) Agreement Information

Partner(s): - **Activity Date:** 11/30/2022
Type: Foreign Military Sales: Letter of Offer and Acceptance **Agreement Number:** NB-B-VCC
Notes: USAI procurement of 300 GMLRS-U pods for \$301.09M and 100 GMLRS-AW pods for \$110.31M.

(U) Agreement Information

Partner(s): - **Activity Date:** 11/21/2022
Type: Foreign Military Sales: Letter of Offer and Acceptance **Agreement Number:** AT-B-UMK
Notes: 11ea GMLRS-U pods awarded on FRP18 for a cost of \$12.7M; 22ea GMLRS-AW pods awarded on

FRP18 for a cost of \$28.2M.

(U) Agreement Information

Partner(s): - **Activity Date:** 2/16/2022
Type: Foreign Military Sales: Letter of Offer and Acceptance **Agreement Number:** FI-B-VBB
Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Finland to procure 13 Extended Range GMLRS Unitary Pods/78 rockets for a cost of \$31.8M, and 6 Extended Range GMLRS AW Pods/36 rockets for \$14.7M.

(U) Agreement Information

Partner(s): - **Activity Date:** 7/16/2020
Type: International Cooperative Program: Memorandum of Understanding **Agreement Number:** GIPR024GE
Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Germany to procure 303 Pods/1818 Unitary Rockets for a cost of 253M. Quantities scheduled to deliver by 4QFY2024.

(U) Agreement Information

Partner(s): - **Activity Date:** 4/13/2020
Type: Foreign Military Sales: Letter of Offer and Acceptance **Agreement Number:** RO-B-UEZ
Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Romania to procure 27 Pods/162 Unitary Rockets for a cost of \$28.1M and 27 Pods/162 AW Rockets for a cost of \$32.8M. Estimated to DD250 May 2024

(U) Agreement Information

Partner(s): - **Activity Date:** 7/15/2019
Type: International Cooperative Program: Memorandum of Understanding **Agreement Number:** GIPR021GE
Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Germany procured 150 Pods/900 Unitary Rockets for a cost of \$137.5M.

(U) Agreement Information

Partner(s): - **Activity Date:** 3/20/2019
Type: Foreign Military Sales: Letter of Offer and Acceptance **Agreement Number:** RO-B-UEW
Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Romania to procure 9 Pods/54 AW Rockets for a cost of \$12.8M and 10 Pods/60 Unitary Rockets for a cost of \$9.9M. Qty 36 and Qty 37 pods were delivered in 2022. Qty 9 AW pods were DD250 Aug 2022 and awaiting shipment. Qty 10 U pods are estimated to DD250 February 2024.

(U) Agreement Information

Partner(s): - **Activity Date:** 3/8/2019
Type: Foreign Military Sales: Letter of Offer and Acceptance **Agreement Number:** BA-B-UKF
Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Bahrain to procure 24 Pods/144 Rockets for a cost of 19.2M. Bahrain received their 24 Pods of GMLRS Unitary Aug 23

(U) Agreement Information

Partner(s):	-	Activity Date:	2/25/2019
Type:	Foreign Military Sales: Letter of Offer and Acceptance	Agreement Number:	PL=B-UDJ
Notes:	Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Poland to procure 9 Pods/54 AW Rockets at the cost of \$15.7M and 36 Pods/216 Unitary Rockets at the cost of \$34.4M.		

(U) Agreement Information

Partner(s):	-	Activity Date:	11/1/2018
Type:	International Cooperative Program: Memorandum of Understanding	Agreement Number:	GIPR017GE
Notes:	Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Germany to procure 2 Pods/12 Unitary Rockets for a cost of 139M.		

(U) Agreement Information

Partner(s):	-	Activity Date:	7/1/2018
Type:	Foreign Military Sales: Letter of Offer and Acceptance	Agreement Number:	FR-B-WAN
Notes:	Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) France to procure 21 Pods/126 Unitary Rockets for a cost of 24.8M.		

(U) Agreement Information

Partner(s):	-	Activity Date:	3/6/2018
Type:	Foreign Military Sales: Letter of Offer and Acceptance	Agreement Number:	RO-B-UEN
Notes:	Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Romania to procure 8 Pods/48 AW Rockets for a cost of \$10.2M and 8 Pods/48 Unitary Rockets for a cost of \$9.6M. Pods were delivered in 2022.		

(U) Agreement Information

Partner(s):	-	Activity Date:	7/12/2017
Type:	International Cooperative Program: Memorandum of Understanding	Agreement Number:	GIPR018GE
Notes:	Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Germany to procure 100 Pods/600 Unitary Rockets for a cost of 82.5M.		

(U) Agreement Information

Partner(s):	-	Activity Date:	2/3/2017
Type:	Foreign Military Sales: Letter of Offer and Acceptance	Agreement Number:	FI-B-VAR
Notes:	Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Finland to procure 8 Pods/48 Rockets for a cost of \$8.8M.		

(U) Agreement Information

Partner(s):	-	Activity Date:	12/22/2016
Type:	International Cooperative Program: Memorandum of Understanding	Agreement Number:	GIPR012FR
Notes:	Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) France to procure 25 Pods/150 Unitary Rockets for a cost of 33.8M.		

(U) Agreement Information

Partner(s):	-	Activity Date:	2/10/2016
Type:	Foreign Military Sales: Letter of Offer and Acceptance	Agreement Number:	FI-B-VAQ
Notes:	Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Finland to procure 15 GMLRS Unitary Warhead Pods/(90 Rockets) for a cost of \$10.8M.		

(U) Agreement Information

Partner(s):	-	Activity Date:	2/10/2016
Type:	Foreign Military Sales: Letter of Offer and Acceptance	Agreement Number:	FI-B-VAP
Notes:	Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Finland to procure 25 GMLRS Alternate Warhead (AW) Pods/(150 AW Rockets) for a cost of \$28.1M.		

(U) Agreement Information

Partner(s):	-	Activity Date:	2/5/2016
Type:	Foreign Military Sales: Letter of Offer and Acceptance	Agreement Number:	JO-B-YAY
Notes:	Quantities are currently reported in Pods vs Rockets (which is not how the remainder of the DAES is reporting) Jordan to procure 24 GMLRS AW Pods/(144 AW Rockets) for a cost of \$19.3M. Amendment 03 to case YAY implemented 24 February 2022 added 19 GMLRS Unitary Pods/114 rockets for a cost of \$20.3. 19 GMLRS Unitary Pods should be DD 250ed Dec 24/Jan 25.		

(U) Agreement Information

Partner(s):	-	Activity Date:	3/12/2015
Type:	Foreign Military Sales: Letter of Offer and Acceptance	Agreement Number:	AE-B-ZVE
Notes:	Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) United Arab Emirate to procure 65 Pods/390 Unitary Rockets for a cost of \$83.5M.		

(U) Agreement Information

Partner(s):	-	Activity Date:	2/28/2014
Type:	Foreign Military Sales: Letter of Offer and Acceptance	Agreement Number:	SN-B-VFM
Notes:	Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Singapore procured 40 Pods/240 Unitary Rockets for a cost of \$37.5M. Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Singapore procured 18 Pods/108 Unitary Rockets for a cost of \$17.3M.		

(U) Agreement Information

Partner(s):	-	Activity Date:	12/5/2012
Type:	International Cooperative Program: Memorandum of Understanding	Agreement Number:	GIPR004IT
Notes:	Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Italy to procure 25 Pods/150 Unitary Rockets for a cost of \$9.4M.		

(U) Agreement Information

Partner(s):	-	Activity Date:	3/26/2012
Type:	Foreign Military Sales: Letter of Offer and Acceptance	Agreement Number:	SN-B-VET
Notes:	Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Singapore procured 12 Pods/72 Unitary Rockets for a cost of \$10M.		

(U) Agreement Information

Partner(s): - **Activity Date:** 11/30/2011
Type: International Cooperative Program: Memorandum of Understanding **Agreement Number:** GIPR001IT
Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Italy to procure 11 Pods/66 Unitary Rockets for a cost of \$7.8M.

(U) Agreement Information

Partner(s): - **Activity Date:** 5/1/2011
Type: Foreign Military Sales: Letter of Offer and Acceptance **Agreement Number:** JA-B-XIJ
Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Japan to procure 28 Pods/168 Unitary Rockets for a cost of \$22.5M. On January 1, 2014, all 28 GMLRS Unitary pods were delivered to Japan.

(U) Agreement Information

Partner(s): - **Activity Date:** 2/25/2011
Type: Foreign Military Sales: Letter of Offer and Acceptance **Agreement Number:** SN-B-VEN
Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Singapore procured 14 Pods/84 Unitary Rockets for a cost of \$10.2M.

(U) Agreement Information

Partner(s): - **Activity Date:** 11/24/2010
Type: International Cooperative Program: Memorandum of Understanding **Agreement Number:** GIPR010GE
Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Germany to procure 2 Pods/12 Unitary Rockets for a cost of 82.5M.

(U) Agreement Information

Partner(s): - **Activity Date:** 2/1/2010
Type: International Cooperative Program: Memorandum of Understanding **Agreement Number:** GIPR011UK
Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) UK to procure 432 Pods/2592 Unitary Rockets for a cost of \$48.9M.

(U) Agreement Information

Partner(s): - **Activity Date:** 1/27/2010
Type: Foreign Military Sales: Letter of Offer and Acceptance **Agreement Number:** JO-B-WYB
Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Jordan to procure 72 GMLRS Unitary Pods/(432 Unitary Rockets) for a cost of \$42.6M.

(U) Agreement Information

Partner(s): - **Activity Date:** 6/1/2009
Type: International Cooperative Program: Memorandum of Understanding **Agreement Number:** GIPR009GE
Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Germany to procure 20 Pods/120 Unitary Rockets for a cost of \$13.6M.

(U) Agreement Information

Partner(s): - **Activity Date:** 2/1/2009
Type: Foreign Military Sales: Letter of Offer and Acceptance **Agreement Number:** JA-B-XGH
Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Japan to procure 30 Pods/180 Unitary Rockets for a cost of \$22.7M.

(U) Agreement Information

Partner(s): - **Activity Date:** 1/12/2009
Type: International Cooperative Program: Memorandum of Understanding **Agreement Number:** GIPR-08UK
Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) UK to procure 50 Pods/300 Unitary Rockets for a cost of \$31.5M.

(U) Agreement Information

Partner(s): - **Activity Date:** 12/18/2008
Type: International Cooperative Program: Memorandum of Understanding **Agreement Number:** GIPR002FR
Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) France to procure 2 Pods/12 Unitary Rockets for a cost of 4.1M.

(U) Agreement Information

Partner(s): - **Activity Date:** 12/5/2008
Type: International Cooperative Program: Memorandum of Understanding **Agreement Number:** GIPR007UK
Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) UK to procure 168 Pods/1008 Unitary Rockets for a cost of \$105.8M.

(U) Agreement Information

Partner(s): - **Activity Date:** 10/15/2008
Type: International Cooperative Program: Memorandum of Understanding **Agreement Number:** GIPR006GE
Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Germany to procure 35 Pods/210 Unitary Rockets for a cost of \$24.5M.

(U) Agreement Information

Partner(s): - **Activity Date:** 7/1/2008
Type: International Cooperative Program: Memorandum of Understanding **Agreement Number:** GIPR003UK
Notes: Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) UK to procure 75 Pods/450 Unitary Rockets for a cost of \$48.5M.

(U) Agreement Information

Partner(s): - **Activity Date:** 1/31/2008
Type: Foreign Military Sales: Letter of Offer and Acceptance **Agreement Number:** BA-B-UIW
Notes: Originally 6 GMLRS-Unitary pods were on BA-UIW, but due to an increase in cost, only 4 pods for \$5.1M were procured on FRP 4. Additionally 4 more GMLRS-Unitary pods for \$5.6M are agreed to be purchased in FRP10.

(U) Agreement Information

Partner(s):	-	Activity Date:	12/15/2007
Type:	International Cooperative Program: Memorandum of Understanding	Agreement Number:	GIPR001GE
Notes:	Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Germany to procure 28 Pods/66 Unitary Rockets for a cost of \$7.8M.		

(U) Agreement Information

Partner(s):	-	Activity Date:	11/21/2007
Type:	Foreign Military Sales: Letter of Offer and Acceptance	Agreement Number:	SN-B-VDO
Notes:	Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) Singapore procured 18 Pods/108 Unitary Rockets for a cost of \$13.6M.		

(U) Agreement Information

Partner(s):	-	Activity Date:	8/1/2007
Type:	Foreign Military Sales: Letter of Offer and Acceptance	Agreement Number:	AE-B-ZUD
Notes:	Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) United Arab Emirate to procure 130 Pods/780 Unitary Rockets for a cost of \$103.4M.		

(U) Agreement Information

Partner(s):	-	Activity Date:	8/15/2005
Type:	International Cooperative Program: Memorandum of Understanding	Agreement Number:	GIPR001UK
Notes:	Quantities are currently reported in Pods vs Rockets (which is how the remainder of the DAES is reporting) UK to procure 109 Pods/654 Unitary Rockets for a cost of \$67.7M.		



Modernized Selected Acquisition Report Supplement

Multiple Launch Rocket System/Guided Multiple Launch Rocket System Alternative W (GMLRS/GMLRS AW)

FY 2025 President's Budget

Effective: December 31, 2023

UNCLASSIFIED

MSAR Supplement Sections

Program Description

Program Use of the Adaptive Acquisition Framework

Technologies and Systems Engineering

Funding Sources (Acquisition)

Funding Sources (Operating and Support)

Acquisition Estimate and Quantity Summary

Annual Acquisition Estimates by Appropriation Account

Acquired System Annual End-Item Quantities by Appropriation Account

Nuclear Costs

Operational Fielding Plan

O&S Independent Cost Estimate

Annual Operating and Support Estimates by Cost Element

Program Description

Full Name

Guided Multiple Launch Rocket System/Guided Multiple Launch Rocket System Alternative Warhead

Short Name

GMLRS/GMLRS AW

PNO

260

Lead Component

Army

AAF Pathway

MCA

Acquisition Type

MDAP

Acquired Systems

GMLRS/AW

Related Programs

Full Name	PNO	Pathway	Type	ACAT/ BCAT	Acquisition Status	Costs in SAR?	
						Acq	O&S

Program Use of the Adaptive Acquisition Framework

GMLRS DPICM:

The GMLRS DPICM has a range of 70+ Km and contains 404 M101 grenades to engage area or imprecisely located targets. The GMLRS DPICM was an international cooperative development program with five nations (U.S., United Kingdom, France, Germany, and Italy). GMLRS DPICM no longer meets the threshold reliability requirement and has been transferred to Condition Code N (For Emergency Combat Use Only). Combatant Commanders (COCOM) have been briefed and accept GMLRS DPICM degraded reliability. Production was terminated to comply with the July 9, 2008 Department of Defense Policy on Cluster Munitions and Unintended Harm to Civilians.

GMLRS Unitary:

The GMLRS Unitary is equipped with a single 200-pound unitary high explosive warhead with a range of 70+ Km to engage point targets with reduced collateral damage. The M31A2 configuration with Insensitive Munition Propulsion System (IMPS) was cut into production beginning in 2019.

GMLRS Alternative Warhead (AW):

The GMLRS AW is a non-cluster munition with a range of 70+ km developed to engage area or imprecisely located targets. GMLRS AW eliminates the probability of Unexploded Ordnance (UXO) and satisfies UXO requirements as defined in the November 30, 2017, Department of Defense Policy on Cluster Munitions. The latest configuration, the M30A2 with Insensitive Munition Propulsion System (IMPS), began production in 2019.

Extended Range GMLRS (ER GMLRS):

The ER GMLRS variant is planned for FY 2024 production cut-in to extend the range to a maximum of 150 kilometers. ER GMLRS will be capable of carrying either Unitary or Alternative Warheads.

Technologies and Systems Engineering

Guided Multiple Launch Rocket System/Guided Multiple Launch Rocket System Alternative Warhead

Major Software Efforts

Title	Status	Fielding Date	Description

Major Engineering Changes

Title	Original Need Date	Fielding Date	Description, Rationale and Program Impacts
M-code Guidance Set for GMLRS	Sep 2029	Sep 2029	This capability provides the GMLRS munition to use M-Code GPS as directed by OSD. This provides a more reliable GPS signal and replaces the current Y-code Guidance set.

Funding Sources (Acquisition)

Acquisition Funding Notes

This MSAR includes efforts to develop, produce, and field GMLRS variants including DPICM, Unitary, and Alternative Warhead. Extended Range GMLRS configuration is excluded from consideration in this MSAR.

Guided Multiple Launch Rocket System/Guided Multiple Launch Rocket System Alternative Warhead

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
RDT&E	2040A	07	0205778A - Guided Multiple-Launch Rocket System (GMLRS)	0205778A	EG2 - GMLRS Alternative Warheads		
RDT&E	2040A	07	0205778A - Guided Multiple-Launch Rocket System (GMLRS)	0205778A	EG3 - Guided MLRS		
Procurement	2032A	02	6005C64400 - Guided MLRS Rocket (GMLRS)	0210602A	-		
O&M	2020A	04	435 - Other Service Support	0702806A	-		

Note: This is PEO MS Acq. O&M for core/TDA SEPM

Funding Sources (Operating and Support)

Note: Budget lines fund activities executed by the Program Office or Sustainment Office.

Operating and Support Funding Notes

Aviation and Missile Command (AMCOM) controls and distributes all OMA funding for the GMLRS program.

Guided Multiple Launch Rocket System/Guided Multiple Launch Rocket System Alternative Warhead

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
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Acquisition Estimate and Quantity Summary

Guided Multiple Launch Rocket System/Guided Multiple Launch Rocket System Alternative Warhead

Acquisition Estimates

Category	PB 2025	TY (\$M)	Current Base Year	Original Base Year	Report Fiscal Year
			CY2003 (\$M)	CY2003 (\$M)	CY2024 (\$M)
RDT&E		1,526.3	1,198.7	1,198.7	1,936.6
Procurement		14,857.1	9,719.9	9,719.9	15,702.6
MILCON		-	-	-	-
O&M		33.2	20.7	20.7	33.4
Total Acquisition		16,416.6	10,939.3	10,939.3	17,672.6
PAUC		0.179	0.119	0.119	0.193
APUC		0.163	0.106	0.106	0.172

Acquisition End-Item Quantities

System	PB 2025	Development	Procurement
GMLRS/AW		461	91,320
Total		461	91,320

Unit Description

The GMLRS unit is a missile (e.g. rocket and warhead). The actual missiles making up the total quantity is a mix between standard range Alternate Warhead and Unitary warhead missiles.

Current and Future Years Defense Program Summary, TY(\$M)

Appropriation	Prior	2024	2025	2026	2027	2028	2029	To Complete	Total
RDT&E	1,305.7	76.0	20.5	20.6	20.7	41.2	41.6	-	1,526.3
Procurement	7,356.4	942.3	1,219.8	1,323.8	1,256.8	1,339.1	1,352.5	66.5	14,857.1
MILCON	-	-	-	-	-	-	-	-	-
O&M	15.6	2.7	2.8	2.9	2.9	2.2	2.3	1.8	33.2
PB 2025 Total	8,677.7	1,020.9	1,243.1	1,347.3	1,280.4	1,382.5	1,396.4	68.3	16,416.6

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Guided Multiple Launch Rocket System/Guided Multiple Launch Rocket System Alternative Warhead

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

2040A - Research, Development, Test & Eval, Army					
fiscal year		Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2003 (\$M)
Total		1,526.3	1,526.3	-	1,198.7
1998		13.640	13.6	0.951402	14.3
1999		17.734	17.7	0.962268	18.4
2000		26.765	26.8	0.976808	27.4
2001		16.766	16.8	0.989648	16.9
2002		45.623	45.6	1.000321	45.6
2003		59.385	59.4	1.019067	58.3
2004		54.361	54.4	1.043291	52.1
2005		90.014	90.0	1.073418	83.9
2006		98.319	98.3	1.103501	89.1
2007		43.152	43.2	1.130134	38.2
2008		33.531	33.5	1.151779	29.1
2009		46.317	46.3	1.166497	39.7
2010		18.356	18.4	1.184144	15.5
2011		12.209	12.2	1.207424	10.1
2012		43.267	43.3	1.226447	35.3
2013		61.233	61.2	1.247301	49.1
2014		53.728	53.7	1.271330	42.3
2015		43.791	43.8	1.292675	33.9
2016		36.032	36.0	1.306409	27.6
2017		21.196	21.2	1.334216	15.9
2018		93.864	93.9	1.358361	69.1
2019		113.471	113.5	1.380685	82.2
2020		112.468	112.5	1.425325	78.9
2021		72.477	72.5	1.485293	48.8
2022		58.516	58.5	1.553794	37.7
2023		19.443	19.4	1.615254	12.0
2024		75.952	76.0	1.653514	45.9
2025		20.549	20.5	1.688871	12.2
2026		20.603	20.6	1.724338	11.9
2027		20.730	20.7	1.760549	11.8
2028		41.185	41.2	1.797520	22.9
2029		41.597	41.6	1.835268	22.7

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Guided Multiple Launch Rocket System/Guided Multiple Launch Rocket System Alternative Warhead

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

2032A - Missile Procurement, Army									
fiscal year	End Item Recurring Flyaway	Non-End Item Recurring Flyaway	Non-Recurring Flyaway	Initial Spares	Depot Activation	Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2003 (\$M)
Total	14,546.7	66.5	228.0	2.9	13.0	-	14,857.1	-	9,719.9
1998							-	0.961265	-
1999							-	0.975722	-
2000							-	0.987108	-
2001							-	0.999262	-
2002							-	1.015756	-
2003	109.785		20.335				130.1	1.040278	125.1
2004	98.168		10.846				109.0	1.068468	102.0
2005	103.387		5.429	0.837	2.210		111.9	1.098544	101.8
2006	114.745		6.810				121.6	1.122816	108.3
2007	117.463		7.489				125.0	1.144661	109.2
2008	239.647		15.388	0.440	8.237		263.7	1.162366	226.9
2009	293.970		12.704		2.531		309.2	1.177001	262.7
2010	327.364		16.776				344.1	1.197401	287.4
2011	262.401		2.147				264.5	1.218565	217.1
2012	331.204		1.963				333.2	1.236440	269.5
2013	231.154		2.134				233.3	1.263074	184.7
2014	267.381		5.644				273.0	1.275273	214.1
2015	125.372		1.773				127.1	1.293888	98.3
2016	243.192		6.232	1.636			251.1	1.319243	190.3
2017	430.992		1.704				432.7	1.346203	321.4
2018	910.672		36.323				947.0	1.376007	688.2
2019	973.712		1.795				975.5	1.418060	687.9
2020	1,083.796		17.610				1,101.4	1.478705	744.8
2021	894.592		8.415				903.0	1.559169	579.2
2022							-	1.613119	-
2023							-	1.653345	-
2024	937.342		4.938				942.3	1.689261	557.8
2025	1,214.733		5.042				1,219.8	1.724842	707.2
2026	1,308.371		15.431				1,323.8	1.761063	751.7
2027	1,246.524		10.256				1,256.8	1.798046	699.0
2028	1,333.734		5.366				1,339.1	1.835805	729.4
2029	1,347.012		5.479				1,352.5	1.874356	721.6
2030		34.337					34.3	1.913718	17.9
2031		32.138					32.1	1.953906	16.4

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Guided Multiple Launch Rocket System/Guided Multiple Launch Rocket System Alternative Wa

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

2020A - Operation & Maintenance, Army					
fiscal year		Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2003 (\$M)
Total		33.2	33.2	-	20.7
1998			-	0.950591	-
1999			-	0.961839	-
2000			-	0.975089	-
2001			-	0.989220	-
2002			-	1.001167	-
2003			-	1.019048	-
2004			-	1.039186	-
2005			-	1.069494	-
2006			-	1.103854	-
2007			-	1.129893	-
2008			-	1.151510	-
2009			-	1.163219	-
2010			-	1.180162	-
2011			-	1.205796	-
2012			-	1.223031	-
2013			-	1.239921	-
2014			-	1.259485	-
2015			-	1.272066	-
2016			-	1.294830	-
2017			-	1.316635	-
2018			-	1.343028	-
2019		3.438	3.4	1.373584	2.5
2020		3.531	3.5	1.411200	2.5
2021		3.584	3.6	1.480230	2.4
2022		2.472	2.5	1.553559	1.6
2023		2.577	2.6	1.609499	1.6
2024		2.711	2.7	1.647483	1.6
2025		2.792	2.8	1.682662	1.7
2026		2.851	2.9	1.717998	1.7
2027		2.912	2.9	1.754076	1.7
2028		2.224	2.2	1.790912	1.2
2029		2.272	2.3	1.828521	1.2
2030		0.913	0.9	1.866920	0.5
2031		0.932	0.9	1.906125	0.5

Acquired System Annual End-Item Quantities by Appropriation Account
(Aligned to Budget Position: PB 2025)

Guided Multiple Launch Rocket System/Guided Multiple Launch Rocket System Alternati

2040A - Research, Development, Test & Eval, Army				
fiscal year	GMLRS/AW			Total
Total	461			461
Undistributed				-
2000	38			38
2001	55			55
2002	72			72
2003	70			70
2004				-
2005				-
2006				-
2007				-
2008				-
2009				-
2010				-
2011				-
2012				-
2013				-
2014	141			141
2015				-
2016				-
2017				-
2018				-
2019				-
2020	16			16
2021	7			7
2022				-
2023				-
2024	8			8
2025	23			23
2026	10			10
2027	3			3
2028	12			12
2029	6			6

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

Guided Multiple Launch Rocket System/Guided Multiple Launch Rocket System Alternati

2032A - Missile Procurement, Army				
fiscal year	GMLRS/AW			Total
Total	91,320			91,320
Undistributed				-
2000				-
2001				-
2002				-
2003	822			822
2004	683			683
2005	954			954
2006	984			984
2007	925			925
2008	2,070			2,070
2009	2,646			2,646
2010	3,228			3,228
2011	2,442			2,442
2012	2,940			2,940
2013	1,824			1,824
2014	2,166			2,166
2015	450			450
2016	1,572			1,572
2017	2,970			2,970
2018	7,338			7,338
2019	7,668			7,668
2020	7,926			7,926
2021	6,012			6,012
2022				-
2023				-
2024	3,864			3,864
2025	6,408			6,408
2026	6,378			6,378
2027	6,240			6,240
2028	6,366			6,366
2029	6,444			6,444

Nuclear Costs

Guided Multiple Launch Rocket System/Guided Multiple Launch Rocket System Alternative Warhead

Program's Use of Department of Energy Resources

No Nuclear Cost

Operational Fielding Plan

Guided Multiple Launch Rocket System/Guided Multiple Launch Rocket System Alternative

System: GMLRS/AW

Fielding and Inventory Notes

No fielding plan or inventory data available at this time.

GMLRS/AW Fielding Plan and Inventory

fiscal year	Store	Field	Expend/Loss	Decommission	Inventory
2023					
2024					-
2025					-
2026					-
2027					-
2028					-
2029					-

O&S Independent Cost Estimate

Guided Multiple Launch Rocket System/Guided Multiple Launch Rocket System Alternative Warhead

Independent and Current Cost Estimate Comparison

Category	CY2003 (\$M)	Independent Cost Estimate 6/27/2007	Current Estimate 7/31/2018	Variance with ICE (%)
Unit-Level Manpower		2.3		-100%
Unit Operations		2.7	4.5	67%
Maintenance		70.0	246.3	252%
Sustaining Support		72.1	447.6	521%
Continued System Improvements		13.6	43.8	222%
Other				-
Total O&S		160.7	742.2	362%

Independent Cost Estimate Source

Event: GMLRS Rebaseline
Type: Component Cost Estimate
Approved by: Center for Army Analysis, June 27, 2007
Note: Original (2007) baseline procured the APO quantity of 43,560 and assumed shelf life of 10 years.

Current Cost Estimate Source

Type: Component Cost Position
Approved by: Center for Army Analysis, July 31, 2018
Note: Annual O&S Estimates not available at this time.

Cost Estimate Variance Explanation

The O&S cost deviation was initially reported in the December 2017 SAR and is due to an increase in quantities from 43,560 to 87,498 to support the Total Munition Requirements.

Stockpile Reliability Program (SRP) was previously funded using PROC dollars until 2 years after production of each individual variant ended. Beginning in FY28, all SRP costs shall be OMA funded. In addition, assumption for shelf life has been increased to 25 years. This creates higher levels of inventory that are sustained for a longer period of time, resulting in increased O&S costs.

Annual Operating and Support Estimates by Cost Element

Guided Multiple Launch Rocket System/Guided Multiple Launch Rocket System Alternative

System: GMLRS/AW

Source for TY-CY Conversion:

Operating and Support Cost Elements							
fiscal year	1.0 Unit-Level Manpower	2.0 Unit Operations	3.0 Maintenance	4.0 Sustaining Support	5.0 Continuing System Improvements	Other	Total CY2003 (\$M)
Total	-	-	-	-	-	-	-