



Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-260



GMLRS/GMLRS AW

As of December 31, 2010

Defense Acquisition Management
Information Retrieval
(DAMIR)

UNCLASSIFIED

Table of Contents

| | |
|-----------------------------------|----|
| Program Information | 3 |
| Responsible Office | 3 |
| References | 3 |
| Mission and Description | 4 |
| Executive Summary | 5 |
| Threshold Breaches | 6 |
| Schedule | 7 |
| Performance | 8 |
| Track To Budget | 9 |
| Cost and Funding | 10 |
| Low Rate Initial Production | 16 |
| Foreign Military Sales | 16 |
| Nuclear Cost | 17 |
| Unit Cost | 18 |
| Cost Variance | 22 |
| Contracts | 25 |
| Deliveries and Expenditures | 30 |
| Operating and Support Cost | 31 |

Program Information

Designation And Nomenclature (Popular Name)

Guided Multiple Launch Rocket System (GMLRS)

DoD Component

Army

Responsible Office

Responsible Office

COL David J. Rice
Project Manager
Precision Fires Rocket & Missile Sys
ATTN: SFAE-MSLS-PF
Redstone Arsenal, AL 35898-8000
david.rice@msl.army.mil

Phone 256-876-1195
Fax 256-955-8820
DSN Phone 746-1195
DSN Fax 645-8820

Date Assigned June 12, 2007

References

SAR Baseline (Production Estimate)

Army Acquisition Executive (AAE) Approved Acquisition Program Baseline (APB) dated May 30, 2003

Approved APB

AAE Approved Acquisition Program Baseline (APB) dated June 27, 2007

Mission and Description

The mission of the Guided Multiple Launch Rocket System (GMLRS) is to attack/neutralize/suppress/destroy targets using indirect precision fires. GMLRS provides Field Artillery units with medium and long-range (over 70+ Km) fires while supporting brigade, division, corps, army, theater, Joint/Coalition Forces and Marine Air-Ground Task Forces (MAGTF) in full, limited or expeditionary operations. GMLRS rocket is a solid propellant artillery rocket deployed from the M270A1 and the High Mobility Artillery Rocket System (HIMARS) mobile launch vehicles. GMLRS uses an Inertial Measuring Unit (IMU) with Global Positioning System (GPS) assistance to guide the rocket to a specific point to deliver effects on a target. GMLRS is transported and fired in a Rocket Pod Container (RPC) that consists of six rockets. GMLRS is currently designed to carry two warhead payload variants, GMLRS Dual Purpose Improved Conventional Munitions (GMLRS DPICM) and GMLRS Unitary (GMLRS-U). A third variant of the GMLRS, the Alternative Warhead (AW), is currently in the Technology Development Phase.

GMLRS DPICM Increment 1

The GMLRS DPICM (Increment 1) has a range of over 70+ Km, contains 404 DPICM, and is used to provide precision fires on area targets including personnel and thinly armored vehicles. The GMLRS DPICM was an international cooperative development program with five nations (United States, United Kingdom, France, Germany, and Italy).

GMLRS Unitary (GMLRS-U) Increment 2

The GMLRS-U (Increment 2) is equipped with a 200-pound unitary high explosive warhead, has a range up to 70+ Km, and is effective against multiple targets. Accuracy of the rocket has been demonstrated to be significantly less than 5 meters. While extremely accurate, the single warhead also limits collateral damage to areas surrounding the designated target.

GMLRS AW Increment 3

The GMLRS AW (Increment 3) is currently designed to replace the DPICM, provide similar effects at comparable range, and eliminate the probability of Unexploded Ordnances (UXOs). All of the competing concepts for the AW will satisfy the UXO requirements as defined in the DOD Policy on Cluster Munitions and Unintended Harm to Civilians, dated June 19, 2008.

Executive Summary

The Guided Multiple Launch Rocket System (GMLRS) class Justification & Approval (J&A) was approved on February 18, 2010, for the procurement of continued Full Rate Production (FRP) V thru VII, of the GMLRS Unitary for FY 2010 - FY 2012.

GMLRS Increment 2 (Unitary) FRP-VI Contract Package was approved by the AMCOM Commanding General on October 15, 2010. Lockheed Martin Missiles Corporation submitted their proposal on December 6, 2010 and the FRP-VI Proposal Kick-off Meeting was conducted on December 15, 2010. Contract award is projected for late March 2011. The Precision Fires Rocket & Missile Systems Project Office awarded the GMLRS FRP-V Contract on May 13, 2010, for 761 GMLRS-U rocket pods and 529 Low Cost Reduced Range Practice Rocket pods with initial deliveries planned for 1st Quarter FY 2012.

The GMLRS Increment 3 Alternative Warhead (AW) Capability Development Document (CDD) has completed World Wide staffing and Army Capabilities Integration Center validation. It is currently undergoing Headquarters Department of the Army (HQDA) post-coordination, comment resolution and will be submitted to the Army Requirements Oversight Council for review in March 2011. The AW Acquisition Strategy, in support of Milestone B, was approved by the Army Acquisition Executive (AAE) on December 10, 2010. A J&A for a sole source Engineering and Manufacturing Development contract to Lockheed Martin Missiles Corporation will be submitted to the AAE for approval in March 2011.

GMLRS-AW is currently in the Technology Development Phase of acquisition, with an expected Milestone B decision in 4th Quarter 2011. On September 18, 2009, three competing warhead contractors were awarded contracts to conduct ground and flight tests demonstrations. The flight test demonstrations for the prototype warheads were completed on October 26, 2010, and the data collected is being analyzed by the Army Research Laboratory to support the Analysis of Alternatives (AoA). The AoA is being conducted by the Army Materiel Systems Analysis Activity and is scheduled to complete the final AoA report June 30, 2011. In January 2011, the three competing contractors submitted updated proposals to support final Source Selection down-select to one contract's design for inclusion in an Engineering and Manufacturing Development phase. The AW System Preliminary Design Review was completed on January 20, 2011. The GMLRS hardware will maintain approximately 80% commonality, irrelevant of which warhead is integrated into the systems (DPICM, Unitary, or AW). All of the competing concepts for the AW will satisfy the Unexploded Ordnance requirements as defined in the DoD Policy on Cluster Munitions and Unintended Harm to Civilians, dated June 19, 2008.

In the FY 2012 President's Budget submission, GMLRS Research, Development, Test and Evaluation funds were increased to provide funds for technological enhancements to the GMLRS Unitary (Increment 2) rocket; 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.

There are no significant software issues with the program at this time.

Threshold Breaches

APB Breaches

| | | |
|--------------------|-------------|-------------------------------------|
| Schedule | | <input type="checkbox"/> |
| Performance | | <input type="checkbox"/> |
| Cost | RDT&E | <input checked="" type="checkbox"/> |
| | Procurement | <input type="checkbox"/> |
| | MILCON | <input type="checkbox"/> |
| | Acq O&M | <input type="checkbox"/> |
| Unit Cost | PAUC | <input type="checkbox"/> |
| | APUC | <input type="checkbox"/> |

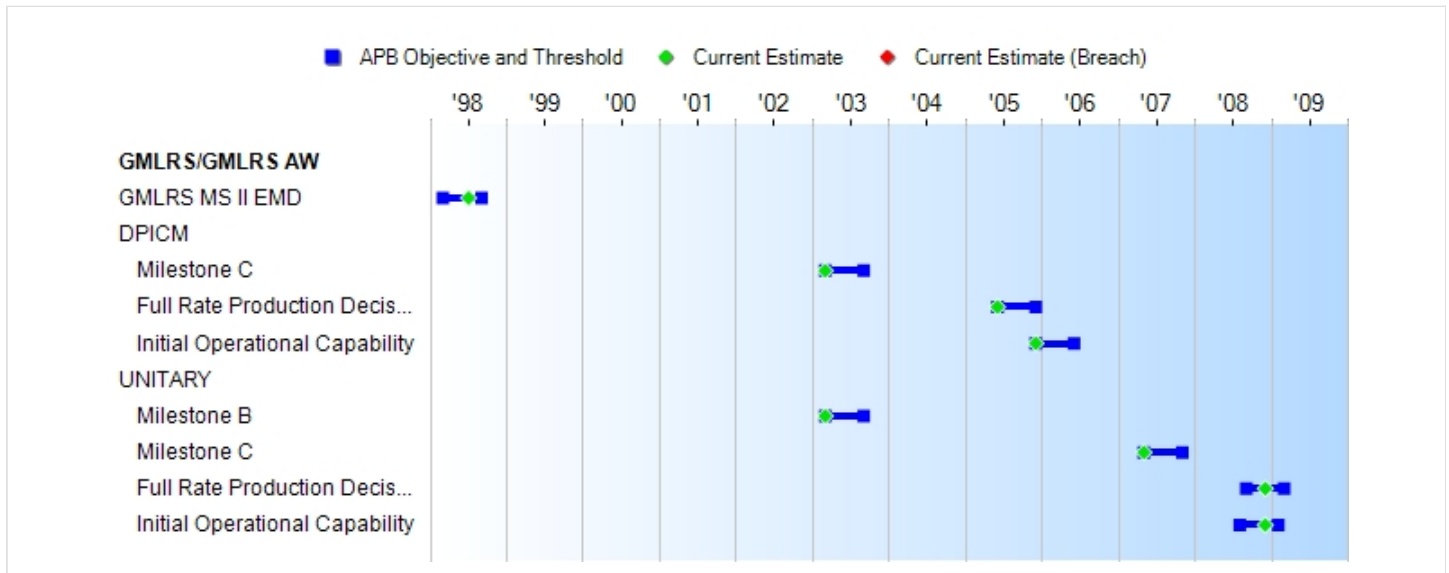
Explanation of Breach

The Current Estimate in the Cost Summary section reflects an increase to total Research, Development, Test and Evaluation cost from the June 27, 2007 Acquisition Program Baseline due to the additional requirement for an Alternative Warhead (Increment 3) program. A Program Deviation Report dated April 7, 2010, has been submitted.

Nunn-McCurdy Breaches

| | | |
|------------------------------|------|------|
| Current UCR Baseline | | |
| | PAUC | None |
| | APUC | None |
| Original UCR Baseline | | |
| | PAUC | None |
| | APUC | None |

Schedule



| Milestones | SAR Baseline Prod Est | Current APB Production Objective/Threshold | | Current Estimate |
|--------------------------------|-----------------------|--|----------|------------------|
| | | | | |
| GMLRS MS II EMD | MAR 1998 | MAR 1998 | SEP 1998 | JUL 1998 |
| DPICM | | | | |
| Milestone C | MAR 2003 | MAR 2003 | SEP 2003 | MAR 2003 |
| Full Rate Production Decision | MAR 2005 | JUN 2005 | DEC 2005 | JUN 2005 |
| Initial Operational Capability | NOV 2006 | DEC 2005 | JUN 2006 | DEC 2005 |
| UNITARY | | | | |
| Milestone B | MAR 2003 | MAR 2003 | SEP 2003 | MAR 2003 |
| Milestone C | SEP 2006 | MAY 2007 | NOV 2007 | MAY 2007 |
| Full Rate Production Decision | SEP 2008 | SEP 2008 | MAR 2009 | DEC 2008 |
| Initial Operational Capability | MAR 2008 | AUG 2008 | FEB 2009 | DEC 2008 |

Acronyms And Abbreviations

DPICM - Dual Purpose Improved Conventional Munition
 EMD - Engineering and Manufacturing Development
 GMLRS - Guided Multiple Launch Rocket System
 MS - Milestone

Change Explanations

None

Performance

| Characteristics | SAR Baseline Prod Est | Current APB Production Objective/Threshold | Demonstrated Performance | Current Estimate | | |
|--|--------------------------|--|-----------------------------|---------------------|-------------|--------|
| DPICM | | | | | | |
| Range | | | | | | |
| Max (Km) | 70 | 70 | 60 | 73 | 70 | |
| Min (Km) | 10 | 10 | 15 | 15 | 10 | |
| Effectiveness | | | | | | |
| (Expected Fractional Damage [EFD]) | 30% | 30% | 30% | 30%+ | 30%+ | |
| Reliability | .95 | .95 | .92 | .87 | .92 | |
| Hazardous Dud Rate | 0 | 0% | 2%/4% | 1.71%/3.75% | 1.71%/3.75% | |
| UNITARY | | | | | | |
| Range | | | | | | |
| Max (Km) | 70 | 70 | 60 | 70+ | 70+ | |
| Min (Km) | 10 | 10 | 15 | 15 | 15 | |
| Effectiveness | 30% | 30% | Functional Kill | TBD | 30% | (Ch-1) |
| Reliability | .95 | .95 | .92 | .92 | .92 | |

Requirements Source: Operational Requirements Document (ORD)(of which DPICM is a part), dated November 3, 2003.

Acronyms And Abbreviations

DPICM - Dual Purpose Improved Conventional Munition
 GMLRS - Guided Multiple Launch Rocket System
 Max Km - Maximum Kilometers
 Min Km - Minimum Kilometers

Change Explanations

(Ch-1) The GMLRS Unitary Effectiveness Characteristic was erroneously omitted in the December 31, 2009 SAR.

Track To Budget

RDT&E

| | | | |
|-----------|-------------|-------------|----------|
| APPN 2040 | BA 07 | PE 0673778A | (Army) |
| | Project 784 | GMLRS | (Shared) |
| | Project 78G | GMLRS AW | |

Project 784 Budget is shared with funding for an emerging requirement in support of a potential follow-on effort that will provide flexibility across the target set and reduce collateral damage. This shared effort covers FY 2013 through FY 2020.

The Project 784 Budget as shown in the February 2011 R-Forms included the shared follow-on effort above in FY 2013 to FY 2016.

Procurement

| | | | |
|-----------|------------|--------------|--------|
| APPN 2032 | BA 07 | | (Army) |
| | ICN C65404 | GMLRS (Army) | |
| | ICN C65406 | GMLRS (Army) | |

ICN 65400 is the parent line for ICNs 65404 and C65406.

Per Army Budget Office P-Form Guidance, the February 2011 P-Forms showed additional FY 2012 requested Overseas Contingency Operations (OCO) dollars and associated quantity even though the OCO dollars were not included in the FY 2012 President's Budget (\$19M and 210 rockets for a total FY 2012 budget of \$333.167 and 2994 rockets); SAR also includes the FY 2012 OCO impacts; in all cases Army Procurement Objective remains as 43,560 rockets.

Cost and Funding

Cost Summary

Total Acquisition Cost and Quantity

| Appropriation | BY2003 \$M | | | BY2003 \$M | TY \$M | | |
|----------------|-----------------------|--|--------|--------------------|-----------------------|----------------------------------|------------------|
| | SAR Baseline Prod Est | Current APB Production Objective/Threshold | | Current Estimate | SAR Baseline Prod Est | Current APB Production Objective | Current Estimate |
| RDT&E | 485.4 | 611.7 | 672.9 | 719.6 ¹ | 500.5 | 675.3 | 804.2 |
| Procurement | 9294.8 | 3966.7 | 4363.4 | 4157.8 | 11348.4 | 5170.4 | 5220.2 |
| Flyaway | 9274.1 | -- | -- | 4129.8 | 11325.9 | -- | 5188.3 |
| Recurring | 9202.5 | -- | -- | 4079.3 | 11247.7 | -- | 5132.1 |
| Non Recurring | 71.6 | -- | -- | 50.5 | 78.2 | -- | 56.2 |
| Support | 20.7 | -- | -- | 28.0 | 22.5 | -- | 31.9 |
| Other Support | 19.1 | -- | -- | 26.9 | 20.8 | -- | 30.6 |
| Initial Spares | 1.6 | -- | -- | 1.1 | 1.7 | -- | 1.3 |
| MILCON | 0.0 | 0.0 | -- | 0.0 | 0.0 | 0.0 | 0.0 |
| Acq O&M | 0.0 | 0.0 | -- | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 9780.2 | 4578.4 | N/A | 4877.4 | 11848.9 | 5845.7 | 6024.4 |

¹ APB Breach

The confidence level used in establishing the cost estimate for GMLRS is 50% based on standard Department costing policy.

| Quantity | SAR Baseline Prod Est | Current APB Production | Current Estimate |
|-------------|-----------------------|------------------------|------------------|
| RDT&E | 235 | 235 | 322 |
| Procurement | 140004 | 43560 | 43560 |
| Total | 140239 | 43795 | 43882 |

Cost and Funding

Funding Summary

Appropriation and Quantity Summary FY2012 President's Budget / December 2010 SAR (TY\$ M)

| Appropriation | Prior | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | To Complete | Total |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------------|--------|
| RDT&E | 564.0 | 44.6 | 44.6 | 33.4 | 35.4 | 34.5 | 6.6 | 41.1 | 804.2 |
| Procurement | 1523.9 | 291.0 | 333.2 | 322.6 | 337.0 | 336.7 | 373.1 | 1702.7 | 5220.2 |
| MILCON | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acq O&M | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PB 2012 Total | 2087.9 | 335.6 | 377.8 | 356.0 | 372.4 | 371.2 | 379.7 | 1743.8 | 6024.4 |
| PB 2011 Total | 2090.3 | 335.6 | 361.0 | 361.0 | 380.1 | 388.7 | 412.5 | 1729.7 | 6058.9 |
| Delta | -2.4 | 0.0 | 16.8 | -5.0 | -7.7 | -17.5 | -32.8 | 14.1 | -34.5 |

Due to a technical/timing issue, quantity and other corrections did not make the database lock for the February 2011 GMLRS P-form submission. Therefore, the projected rocket quantities from the locked data base for FY 2015 and FY 2016 shown in the February 2011 GMLRS P-form (2832 and 3286, respectively) are different from those shown in the same years in the December 31, 2010 GMLRS SAR (2838 and 3204, respectively). The FY 2015 and FY 2016 projected quantities are correct as shown in the December 31, 2010 GMLRS SAR.

| Quantity | Undistributed | Prior | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | To Complete | Total |
|---------------|---------------|-------|--------|--------|--------|--------|--------|--------|-------------|-------|
| Development | 322 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 322 |
| Production | 0 | 12312 | 2592 | 2994 | 2796 | 2964 | 2838 | 3204 | 13860 | 43560 |
| PB 2012 Total | 322 | 12312 | 2592 | 2994 | 2796 | 2964 | 2838 | 3204 | 13860 | 43882 |
| PB 2011 Total | 322 | 12312 | 2592 | 2802 | 2892 | 2880 | 2946 | 3486 | 13650 | 43882 |
| Delta | 0 | 0 | 0 | 192 | -96 | 84 | -108 | -282 | 210 | 0 |

Cost and Funding

Annual Funding By Appropriation

Annual Funding TY\$

2040 | RDT&E | Research, Development, Test, and Evaluation, Army

| Fiscal Year | Quantity | End Item Recurring Flyaway TY \$M | Non End Item Recurring Flyaway TY \$M | Non Recurring Flyaway TY \$M | Total Flyaway TY \$M | Total Support TY \$M | Total Program TY \$M |
|-----------------|------------|-----------------------------------|---------------------------------------|------------------------------|----------------------|----------------------|----------------------|
| 1998 | -- | -- | -- | -- | -- | -- | 13.6 |
| 1999 | -- | -- | -- | -- | -- | -- | 17.7 |
| 2000 | -- | -- | -- | -- | -- | -- | 26.8 |
| 2001 | -- | -- | -- | -- | -- | -- | 16.8 |
| 2002 | -- | -- | -- | -- | -- | -- | 45.6 |
| 2003 | -- | -- | -- | -- | -- | -- | 59.4 |
| 2004 | -- | -- | -- | -- | -- | -- | 54.4 |
| 2005 | -- | -- | -- | -- | -- | -- | 90.0 |
| 2006 | -- | -- | -- | -- | -- | -- | 98.3 |
| 2007 | -- | -- | -- | -- | -- | -- | 43.2 |
| 2008 | -- | -- | -- | -- | -- | -- | 33.5 |
| 2009 | -- | -- | -- | -- | -- | -- | 46.3 |
| 2010 | -- | -- | -- | -- | -- | -- | 18.4 |
| 2011 | -- | -- | -- | -- | -- | -- | 44.6 |
| 2012 | -- | -- | -- | -- | -- | -- | 44.6 |
| 2013 | -- | -- | -- | -- | -- | -- | 33.4 |
| 2014 | -- | -- | -- | -- | -- | -- | 35.4 |
| 2015 | -- | -- | -- | -- | -- | -- | 34.5 |
| 2016 | -- | -- | -- | -- | -- | -- | 6.6 |
| 2017 | -- | -- | -- | -- | -- | -- | 6.7 |
| 2018 | -- | -- | -- | -- | -- | -- | 6.9 |
| 2019 | -- | -- | -- | -- | -- | -- | 6.7 |
| 2020 | -- | -- | -- | -- | -- | -- | 6.8 |
| 2021 | -- | -- | -- | -- | -- | -- | 6.9 |
| 2022 | -- | -- | -- | -- | -- | -- | 7.1 |
| Subtotal | 322 | -- | -- | -- | -- | -- | 804.2 |

Annual Funding BY\$**2040 | RDT&E | Research, Development, Test, and Evaluation, Army**

| Fiscal Year | Quantity | End Item Recurring Flyaway BY 2003 \$M | Non End Item Recurring Flyaway BY 2003 \$M | Non Recurring Flyaway BY 2003 \$M | Total Flyaway BY 2003 \$M | Total Support BY 2003 \$M | Total Program BY 2003 \$M |
|--------------------|-----------------|---|---|--|----------------------------------|----------------------------------|----------------------------------|
| 1998 | -- | -- | -- | -- | -- | -- | 14.3 |
| 1999 | -- | -- | -- | -- | -- | -- | 18.4 |
| 2000 | -- | -- | -- | -- | -- | -- | 27.4 |
| 2001 | -- | -- | -- | -- | -- | -- | 17.0 |
| 2002 | -- | -- | -- | -- | -- | -- | 45.6 |
| 2003 | -- | -- | -- | -- | -- | -- | 58.3 |
| 2004 | -- | -- | -- | -- | -- | -- | 52.1 |
| 2005 | -- | -- | -- | -- | -- | -- | 83.8 |
| 2006 | -- | -- | -- | -- | -- | -- | 89.0 |
| 2007 | -- | -- | -- | -- | -- | -- | 38.2 |
| 2008 | -- | -- | -- | -- | -- | -- | 29.1 |
| 2009 | -- | -- | -- | -- | -- | -- | 39.7 |
| 2010 | -- | -- | -- | -- | -- | -- | 15.6 |
| 2011 | -- | -- | -- | -- | -- | -- | 37.3 |
| 2012 | -- | -- | -- | -- | -- | -- | 36.7 |
| 2013 | -- | -- | -- | -- | -- | -- | 27.0 |
| 2014 | -- | -- | -- | -- | -- | -- | 28.2 |
| 2015 | -- | -- | -- | -- | -- | -- | 27.0 |
| 2016 | -- | -- | -- | -- | -- | -- | 5.1 |
| 2017 | -- | -- | -- | -- | -- | -- | 5.1 |
| 2018 | -- | -- | -- | -- | -- | -- | 5.1 |
| 2019 | -- | -- | -- | -- | -- | -- | 4.9 |
| 2020 | -- | -- | -- | -- | -- | -- | 4.9 |
| 2021 | -- | -- | -- | -- | -- | -- | 4.9 |
| 2022 | -- | -- | -- | -- | -- | -- | 4.9 |
| Subtotal | 322 | -- | -- | -- | -- | -- | 719.6 |

Annual Funding TY\$

2032 | Procurement | Missile Procurement, Army

| Fiscal Year | Quantity | End Item Recurring Flyaway TY \$M | Non End Item Recurring Flyaway TY \$M | Non Recurring Flyaway TY \$M | Total Flyaway TY \$M | Total Support TY \$M | Total Program TY \$M |
|-----------------|--------------|-----------------------------------|---------------------------------------|------------------------------|----------------------|----------------------|----------------------|
| 2003 | 822 | 110.4 | -- | 13.1 | 123.5 | 6.6 | 130.1 |
| 2004 | 683 | 97.3 | -- | 7.0 | 104.3 | 4.7 | 109.0 |
| 2005 | 954 | 97.2 | -- | 3.7 | 100.9 | 11.0 | 111.9 |
| 2006 | 984 | 119.8 | -- | 0.3 | 120.1 | 1.5 | 121.6 |
| 2007 | 925 | 123.4 | -- | 0.9 | 124.3 | 0.7 | 125.0 |
| 2008 | 2070 | 241.8 | -- | 20.8 | 262.6 | 1.1 | 263.7 |
| 2009 | 2646 | 300.1 | -- | 8.8 | 308.9 | 0.4 | 309.3 |
| 2010 | 3228 | 352.9 | -- | -- | 352.9 | 0.4 | 353.3 |
| 2011 | 2592 | 290.6 | -- | -- | 290.6 | 0.4 | 291.0 |
| 2012 | 2994 | 332.8 | -- | -- | 332.8 | 0.4 | 333.2 |
| 2013 | 2796 | 322.2 | -- | -- | 322.2 | 0.4 | 322.6 |
| 2014 | 2964 | 336.6 | -- | -- | 336.6 | 0.4 | 337.0 |
| 2015 | 2838 | 334.7 | -- | 1.6 | 336.3 | 0.4 | 336.7 |
| 2016 | 3204 | 372.6 | -- | -- | 372.6 | 0.5 | 373.1 |
| 2017 | 3546 | 409.0 | -- | -- | 409.0 | 0.5 | 409.5 |
| 2018 | 3582 | 418.8 | -- | -- | 418.8 | 0.5 | 419.3 |
| 2019 | 3660 | 428.8 | -- | -- | 428.8 | 0.5 | 429.3 |
| 2020 | 3072 | 376.3 | -- | -- | 376.3 | 0.5 | 376.8 |
| 2021 | -- | -- | 37.9 | -- | 37.9 | 0.5 | 38.4 |
| 2022 | -- | -- | 28.9 | -- | 28.9 | 0.5 | 29.4 |
| Subtotal | 43560 | 5065.3 | 66.8 | 56.2 | 5188.3 | 31.9 | 5220.2 |

Annual Funding BY\$**2032 | Procurement | Missile Procurement, Army**

| Fiscal Year | Quantity | End Item Recurring Flyaway BY 2003 \$M | Non End Item Recurring Flyaway BY 2003 \$M | Non Recurring Flyaway BY 2003 \$M | Total Flyaway BY 2003 \$M | Total Support BY 2003 \$M | Total Program BY 2003 \$M |
|--------------------|-----------------|---|---|--|----------------------------------|----------------------------------|----------------------------------|
| 2003 | 822 | 106.1 | -- | 12.6 | 118.7 | 6.3 | 125.0 |
| 2004 | 683 | 91.0 | -- | 6.6 | 97.6 | 4.4 | 102.0 |
| 2005 | 954 | 88.4 | -- | 3.4 | 91.8 | 10.0 | 101.8 |
| 2006 | 984 | 106.7 | -- | 0.3 | 107.0 | 1.3 | 108.3 |
| 2007 | 925 | 107.8 | -- | 0.8 | 108.6 | 0.6 | 109.2 |
| 2008 | 2070 | 208.2 | -- | 17.9 | 226.1 | 0.9 | 227.0 |
| 2009 | 2646 | 255.8 | -- | 7.6 | 263.4 | 0.3 | 263.7 |
| 2010 | 3228 | 296.9 | -- | -- | 296.9 | 0.4 | 297.3 |
| 2011 | 2592 | 240.7 | -- | -- | 240.7 | 0.3 | 241.0 |
| 2012 | 2994 | 271.2 | -- | -- | 271.2 | 0.3 | 271.5 |
| 2013 | 2796 | 258.2 | -- | -- | 258.2 | 0.3 | 258.5 |
| 2014 | 2964 | 265.2 | -- | -- | 265.2 | 0.3 | 265.5 |
| 2015 | 2838 | 259.3 | -- | 1.3 | 260.6 | 0.3 | 260.9 |
| 2016 | 3204 | 283.9 | -- | -- | 283.9 | 0.3 | 284.2 |
| 2017 | 3546 | 306.4 | -- | -- | 306.4 | 0.4 | 306.8 |
| 2018 | 3582 | 308.5 | -- | -- | 308.5 | 0.3 | 308.8 |
| 2019 | 3660 | 310.6 | -- | -- | 310.6 | 0.3 | 310.9 |
| 2020 | 3072 | 268.0 | -- | -- | 268.0 | 0.3 | 268.3 |
| 2021 | -- | -- | 26.5 | -- | 26.5 | 0.4 | 26.9 |
| 2022 | -- | -- | 19.9 | -- | 19.9 | 0.3 | 20.2 |
| Subtotal | 43560 | 4032.9 | 46.4 | 50.5 | 4129.8 | 28.0 | 4157.8 |

Low Rate Initial Production

| | Initial LRIP Decision | Current Total LRIP |
|--------------------------|-----------------------|--------------------|
| Approval Date | 3/24/2003 | 3/24/2003 |
| Approved Quantity | 13998 | 17478 |
| Reference | ADM | ADM |
| Start Year | 2003 | 2003 |
| End Year | 2005 | 2008 |

At the Guided Multiple Launch Rocket System (GMLRS) Dual Purpose Improved Conventional Munition (DPICM) Milestone C, in the March 24, 2003, Acquisition Decision Memorandum (ADM), the Army Acquisition Executive (AAE) authorized a Low Rate Initial Production (LRIP) quantity not to exceed 13,998 rockets. This LRIP quantity was based on the Army Acquisition Objective (AAO) of 140,004. The actual GMLRS DPICM LRIP quantity was 2,459, of which 498 were GMLRS Unitary Urgent Material Release units.

In the May 7, 2006, Memorandum, the Director, Force Development, changed the AAO to an Army Procurement Objective (APO) of 43,560 rockets. At the GMLRS Unitary Milestone C, in the May 2, 2007, ADM, the AAE authorized a GMLRS Unitary LRIP quantity not to exceed 3,480 (which was based on 34,848, the total expected Procurement quantity for the GMLRS Unitary variant). The actual GMLRS Unitary LRIP quantity was 2,484 units.

The value in the table above for total LRIP approved quantity (17,478) is the summation of 13,998 GMLRS DPICM rockets plus 3,480 GMLRS Unitary rockets.

Therefore, the current GMLRS DPICM and Unitary LRIP quantities do not exceed the 10% guideline as established in Title 10 US Code, Section 2400, Federal Acquisition Streamlining Act. The authorization for GMLRS AW LRIP quantity is also expected to be within these guidelines and will be made at GMLRS AW Milestone B, planned for 4QFY11.

Foreign Military Sales

| Country | Date of Sale | Quantity | Total Cost \$M | Memo |
|----------------------|--------------|----------|----------------|----------------------------|
| Jordan | 1/17/2010 | 432 | 60.0 | Unitary rockets. |
| Japan | 2/13/2009 | 180 | 24.7 | Unitary rockets. |
| Bahrain | 12/5/2008 | 36 | 6.0 | Unitary rockets. |
| Singapore | 12/5/2007 | 108 | 15.0 | Unitary rockets. |
| United Arab Emirates | 8/1/2007 | 1560 | 212.5 | DPICM and Unitary rockets. |

The Memorandum of Understanding Partner nations continue to procure GMLRS rockets from the US production line.

United Kingdom, Germany and France are Cooperative Partners and are not FMS customers. The United Kingdom (UK) has procured 2844 rockets, of which over 750+ have been successfully fired in a combat environment to support US Forces. Germany has procured 444 rockets under GMLRS Full Rate Production (FRP) I, III, IV and V contracts. France has procured 270 rockets under GMLRS FRP IV and V contracts.

Nuclear Cost

None

Unit Cost**Unit Cost Report**

| | BY2003 \$M | BY2003 \$M | |
|--------------------------------------|---|------------------------------------|----------------|
| Unit Cost | Current UCR Baseline (JUN 2007 APB) | Current Estimate (DEC 2010 SAR) | BY % Change |
| Program Acquisition Unit Cost (PAUC) | | | |
| Cost | 4578.4 | 4877.4 | |
| Quantity | 43795 | 43882 | |
| Unit Cost | 0.105 | 0.111 | +5.71 |
| Average Procurement Unit Cost (APUC) | | | |
| Cost | 3966.7 | 4157.8 | |
| Quantity | 43560 | 43560 | |
| Unit Cost | 0.091 | 0.095 | +4.40 |

| | BY2003 \$M | BY2003 \$M | |
|--------------------------------------|---|------------------------------------|----------------|
| Unit Cost | Revised Original UCR Baseline (JUN 2007 APB) | Current Estimate (DEC 2010 SAR) | BY % Change |
| Program Acquisition Unit Cost (PAUC) | | | |
| Cost | 4578.4 | 4877.4 | |
| Quantity | 43795 | 43882 | |
| Unit Cost | 0.105 | 0.111 | +5.71 |
| Average Procurement Unit Cost (APUC) | | | |
| Cost | 3966.7 | 4157.8 | |
| Quantity | 43560 | 43560 | |
| Unit Cost | 0.091 | 0.095 | +4.40 |

In accordance with the April 26, 2007 Acquisition Decision Memorandum, separate APUCs and PAUCs have been prepared for all Guided Multiple Launch Rocket System (GMLRS) configurations [Dual Purpose Improved Conventional Munitions (DPICM) and Unitary]. The GMLRS hardware will maintain approximately 80% commonality, irrelevant of which warhead is integrated into the systems. Consequently, changes in cost of any variant will directly affect the APUCs and PAUCs of the others. The split-out for the Alternative Warhead (AW) variant will be included after the AW Milestone B.

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

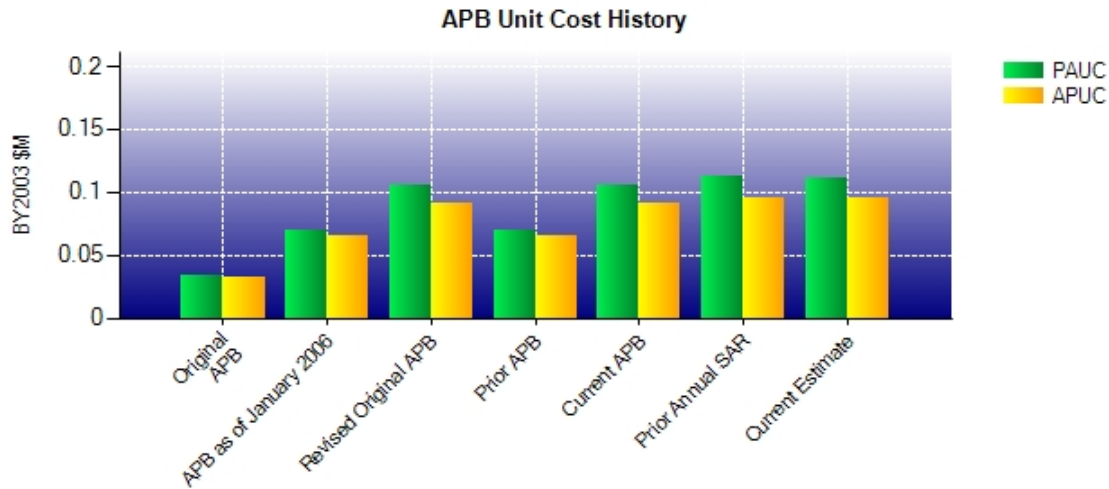
DPICM APUC (\$.134M [BY 03\$]; Qty = 2472)
UNITARY APUC (\$.093M [BY 03\$]; Qty = 34848)

DPICM PAUC (\$.191M [BY 03\$]; Qty = 2565)
UNITARY PAUC (\$.102M [BY 03\$]; Qty = 34990)

Because all GMLRS Variants benefit from the Research, Development, Test and Evaluation future system

enhancements (Insensitive Munitions, obsolescence, cost reduction initiatives), an artificial pro-ration would have to be made to include them in the split-out PAUCs above. Therefore, the split-out PAUCs above exclude the funding for these future enhancements. However, these dollars are included in the composite PAUC shown in the Unit Cost section.

Unit Cost History



| | Date | BY2003 \$M | | TY \$M | |
|-------------------------------|----------|------------|-------|--------|-------|
| | | PAUC | APUC | PAUC | APUC |
| Original APB | MAR 1998 | 0.034 | 0.032 | 0.039 | 0.037 |
| APB as of January 2006 | MAY 2003 | 0.070 | 0.066 | 0.084 | 0.081 |
| Revised Original APB | JUN 2007 | 0.105 | 0.091 | 0.133 | 0.119 |
| Prior APB | MAY 2003 | 0.070 | 0.066 | 0.084 | 0.081 |
| Current APB | JUN 2007 | 0.105 | 0.091 | 0.133 | 0.119 |
| Prior Annual SAR | DEC 2009 | 0.112 | 0.095 | 0.138 | 0.120 |
| Current Estimate | DEC 2010 | 0.111 | 0.095 | 0.137 | 0.120 |

SAR Unit Cost History

Initial SAR Baseline to Current SAR Baseline (TY \$M)

| Initial PAUC Dev Est | Changes | | | | | | | | PAUC Prod Est |
|-------------------------|---------|-------|-------|-------|-------|-------|-------|-------|------------------|
| | Econ | Qty | Sch | Eng | Est | Oth | Spt | Total | |
| 0.039 | -0.003 | 0.001 | 0.001 | 0.009 | 0.037 | 0.000 | 0.000 | 0.045 | 0.084 |

Current SAR Baseline to Current Estimate (TY \$M)

| PAUC Prod Est | Changes | | | | | | | | PAUC Current Est |
|------------------|---------|--------|-------|-------|-------|-------|-------|-------|---------------------|
| | Econ | Qty | Sch | Eng | Est | Oth | Spt | Total | |
| 0.084 | 0.011 | -0.013 | 0.029 | 0.000 | 0.025 | 0.000 | 0.000 | 0.053 | 0.137 |

Initial SAR Baseline to Current SAR Baseline (TY \$M)

| Initial APUC Dev Est | Changes | | | | | | | | APUC Prod Est |
|-------------------------|---------|-------|-------|-------|-------|-------|-------|-------|------------------|
| | Econ | Qty | Sch | Eng | Est | Oth | Spt | Total | |
| 0.037 | -0.003 | 0.004 | 0.001 | 0.006 | 0.036 | 0.000 | 0.000 | 0.044 | 0.081 |

Current SAR Baseline to Current Estimate (TY \$M)

| APUC Prod Est | Changes | | | | | | | | APUC Current Est |
|------------------|---------|--------|-------|-------|-------|-------|-------|-------|---------------------|
| | Econ | Qty | Sch | Eng | Est | Oth | Spt | Total | |
| 0.081 | 0.011 | -0.025 | 0.029 | 0.000 | 0.023 | 0.000 | 0.000 | 0.039 | 0.120 |

SAR Baseline History

| Item/Event | SAR Planning Estimate (PE) | SAR Development Estimate (DE) | SAR Production Estimate (PdE) | Current Estimate |
|-----------------------------|----------------------------------|-------------------------------------|-------------------------------------|---------------------|
| Milestone I | N/A | N/A | N/A | N/A |
| Milestone II | N/A | MAR 1998 | MAR 1998 | JUL 1998 |
| Milestone C | N/A | OCT 2003 | N/A | N/A |
| IOC | N/A | APR 2004 | N/A | N/A |
| Total Cost (TY \$M) | N/A | 1688.6 | 11848.9 | 6024.4 |
| Total Quantity | N/A | 43182 | 140239 | 43882 |
| Prog. Acq. Unit Cost (PAUC) | N/A | 0.039 | 0.084 | 0.137 |

The Milestone C and Initial Operational Capability (IOC) reported above reflect the Dual Purpose Improved Conventional Munition (DPICM) variant. Milestone C for Unitary variant was approved May 2007.

Cost Variance**Cost Variance Summary**

| Summary Then Year \$M | | | | |
|------------------------------|------------------|-------------|---------------|--------------|
| | RDT&E | Proc | MILCON | Total |
| SAR Baseline (Prod Est) | 500.5 | 11348.4 | -- | 11848.9 |
| Previous Changes | | | | |
| Economic | +5.5 | +497.3 | -- | +502.8 |
| Quantity | +190.1 | -8922.7 | -- | -8732.6 |
| Schedule | +8.7 | +1270.4 | -- | +1279.1 |
| Engineering | -- | +10.8 | -- | +10.8 |
| Estimating | +128.7 | +1013.1 | -- | +1141.8 |
| Other | -- | -- | -- | -- |
| Support | -- | +8.1 | -- | +8.1 |
| Subtotal | +333.0 | -6123.0 | -- | -5790.0 |
| Current Changes | | | | |
| Economic | -0.7 | -7.4 | -- | -8.1 |
| Quantity | -- | -- | -- | -- |
| Schedule | -- | +0.4 | -- | +0.4 |
| Engineering | -- | -- | -- | -- |
| Estimating | -28.6 | +1.9 | -- | -26.7 |
| Other | -- | -- | -- | -- |
| Support | -- | -0.1 | -- | -0.1 |
| Subtotal | -29.3 | -5.2 | -- | -34.5 |
| Total Changes | +303.7 | -6128.2 | -- | -5824.5 |
| CE - Cost Variance | 804.2 | 5220.2 | -- | 6024.4 |
| CE - Cost & Funding | 804.2 | 5220.2 | -- | 6024.4 |

| Summary Base Year 2003 \$M | | | | |
|----------------------------|--------|---------|--------|---------|
| | RDT&E | Proc | MILCON | Total |
| SAR Baseline (Prod Est) | 485.4 | 9294.8 | -- | 9780.2 |
| Previous Changes | | | | |
| Economic | -- | -- | -- | -- |
| Quantity | +154.4 | -5929.7 | -- | -5775.3 |
| Schedule | +8.2 | +215.9 | -- | +224.1 |
| Engineering | -- | +8.5 | -- | +8.5 |
| Estimating | +94.6 | +559.6 | -- | +654.2 |
| Other | -- | -- | -- | -- |
| Support | -- | +7.2 | -- | +7.2 |
| Subtotal | +257.2 | -5138.5 | -- | -4881.3 |
| Current Changes | | | | |
| Economic | -- | -- | -- | -- |
| Quantity | -- | -- | -- | -- |
| Schedule | -- | -- | -- | -- |
| Engineering | -- | -- | -- | -- |
| Estimating | -23.0 | +1.4 | -- | -21.6 |
| Other | -- | -- | -- | -- |
| Support | -- | +0.1 | -- | +0.1 |
| Subtotal | -23.0 | +1.5 | -- | -21.5 |
| Total Changes | +234.2 | -5137.0 | -- | -4902.8 |
| CE - Cost Variance | 719.6 | 4157.8 | -- | 4877.4 |
| CE - Cost & Funding | 719.6 | 4157.8 | -- | 4877.4 |

Previous Estimate: December 2009

| RDT&E | \$M | |
|--|------------------|------------------|
| | Base Year | Then Year |
| Current Change Explanations | | |
| Revised escalation indices. (Economic) | N/A | -0.7 |
| Reduced Alternative Warhead contractor test support estimate. (Estimating) | -3.8 | -4.4 |
| Change in Obsolescence estimate due to Army Budget changes. (Estimating) | -18.5 | -23.3 |
| Reduced Insensitive Munitions FY 2010 estimate to actuals (Estimating) | -0.8 | -1.0 |
| Adjustment for current and prior escalation. (Estimating) | +0.1 | +0.1 |
| RDT&E Subtotal | -23.0 | -29.3 |

| Procurement | \$M | |
|--|------------------|------------------|
| | Base Year | Then Year |
| Current Change Explanations | | |
| Revised escalation indices. (Economic) | N/A | -7.4 |
| Procurement buy profile adjusted to align with budget. (Schedule) | 0.0 | +0.4 |
| Adjustment for current and prior escalation. (Estimating) | +0.4 | +0.5 |
| Decreased estimate for MLRS Family of Munitions Common Test Device Upgrade. (Estimating) | -1.4 | -2.3 |
| Increased estimate for Telemetry Kit cost. (Estimating) | +3.8 | +5.3 |
| Decreased estimate due to requested FY 2012 Overseas Contingency Operations rockets and AW Production Cut-in schedule adjustment from FY 2014 to FY 2015 in order to align with completion of the AW Engineering and Manufacturing Development Program. (Estimating) | -1.4 | -1.6 |
| Adjustment for current and prior escalation. (Support) | +0.1 | +0.1 |
| Decreased estimate of the Initial depot spares for AW. (Support) | 0.0 | -0.1 |
| Decreased estimate for training device maintenance. (Support) | 0.0 | -0.1 |
| Procurement Subtotal | +1.5 | -5.2 |

Contracts

Appropriation: Procurement

| | |
|-----------------------|------------------------------|
| Contract Name | GMLRS FRP I |
| Contractor | LMMFC-D |
| Contractor Location | Grand Prairie, TX 75051-0000 |
| Contract Number, Type | W31P4Q-06-C-0002, FFP |
| Award Date | December 28, 2005 |
| Definitization Date | December 28, 2005 |

| Initial Contract Price (\$M) | | | Current Contract Price (\$M) | | | Estimated Price At Completion (\$M) | |
|------------------------------|---------|-----|------------------------------|---------|------|-------------------------------------|-----------------|
| Target | Ceiling | Qty | Target | Ceiling | Qty | Contractor | Program Manager |
| 82.8 | N/A | 822 | 176.2 | N/A | 1772 | 175.6 | 175.6 |

Cost And Schedule Variance Explanations

Cost and Schedule variance reporting is not required on this FFP contract.

Contract Comments

GMLRS Full Rate Production (FRP) I Contract W31P4Q-06-C-0002 was initially awarded December 28, 2005, for 822 rockets (Army) and associated support.

Since this is a production/ FFP contract, there is no single or particular reason for contract value changes over a period of time. The difference between the initial target number and the current number can either be option exercises, change order incorporations, negotiated reopener clauses, etc. Therefore these instruments can experience various up and down dollar changes over the years.

Appropriation: Procurement

| | |
|-----------------------|------------------------------|
| Contract Name | GMLRS FRP II |
| Contractor | LMMFC-D |
| Contractor Location | Grand Prairie, TX 75051-0000 |
| Contract Number, Type | W31P4Q-07-C-0001, FFP |
| Award Date | December 22, 2006 |
| Definitization Date | December 22, 2006 |

| Initial Contract Price (\$M) | | | Current Contract Price (\$M) | | | Estimated Price At Completion (\$M) | |
|------------------------------|---------|-----|------------------------------|---------|------|-------------------------------------|-----------------|
| Target | Ceiling | Qty | Target | Ceiling | Qty | Contractor | Program Manager |
| 78.0 | N/A | 702 | 253.9 | N/A | 2298 | 253.8 | 256.8 |

Cost And Schedule Variance Explanations

Cost and Schedule variance reporting is not required on this FFP contract.

Contract Comments

Since this is a production/ FFP contract, there is no single or particular reason for contract value changes over a period of time. The difference between the initial target number and the current number can either be option exercises, change order incorporations, negotiated reopener clauses, etc. Therefore these instruments can experience various up and down dollar changes over the years.

Appropriation: Procurement

| | |
|-----------------------|------------------------------|
| Contract Name | GMLRS FRP III |
| Contractor | LMMFC-D |
| Contractor Location | Grand Prairie, TX 75051-0000 |
| Contract Number, Type | W31P4Q-08-C-0021, FFP |
| Award Date | December 27, 2007 |
| Definitization Date | December 27, 2007 |

| Initial Contract Price (\$M) | | | Current Contract Price (\$M) | | | Estimated Price At Completion (\$M) | |
|------------------------------|---------|------|------------------------------|---------|------|-------------------------------------|-----------------|
| Target | Ceiling | Qty | Target | Ceiling | Qty | Contractor | Program Manager |
| 245.6 | N/A | 2184 | 444.6 | N/A | 4268 | 442.4 | 442.4 |

Cost And Schedule Variance Explanations

Cost and Schedule variance reporting is not required on this FFP contract.

Contract Comments

Since this is a production/ FFP contract, there is no single or particular reason for contract value changes over a period of time. The difference between the initial target number and the current number can either be option exercises, change order incorporations, negotiated reopener clauses, etc. Therefore these instruments can experience various up and down dollar changes over the years.

Appropriation: Procurement

| | |
|-----------------------|------------------------------|
| Contract Name | GMLRS FRP IV |
| Contractor | LMMC-D |
| Contractor Location | Grand Prairie, TX 75051-0000 |
| Contract Number, Type | W31P4Q-09-3-0001, FFP/CPFF |
| Award Date | December 29, 2008 |
| Definitization Date | December 29, 2008 |

| Initial Contract Price (\$M) | | | Current Contract Price (\$M) | | | Estimated Price At Completion (\$M) | |
|------------------------------|---------|------|------------------------------|---------|------|-------------------------------------|-----------------|
| Target | Ceiling | Qty | Target | Ceiling | Qty | Contractor | Program Manager |
| 371.6 | N/A | 3582 | 548.2 | N/A | 3582 | 548.2 | 548.2 |

Cost And Schedule Variance Explanations

Cost and Schedule variance reporting is not required on this FFP/CPFF contract.

Contract Comments

Appropriation: Procurement

| | |
|-----------------------|------------------------------|
| Contract Name | GMLRS FRP V |
| Contractor | LMMFC-D |
| Contractor Location | Grand Prairie, TX 75051-0000 |
| Contract Number, Type | W31P4Q-10-C-0270, FFP/CPFF |
| Award Date | May 13, 2010 |
| Definitization Date | July 12, 2010 |

| Initial Contract Price (\$M) | | | Current Contract Price (\$M) | | | Estimated Price At Completion (\$M) | |
|------------------------------|---------|------|------------------------------|---------|------|-------------------------------------|-----------------|
| Target | Ceiling | Qty | Target | Ceiling | Qty | Contractor | Program Manager |
| 474.2 | N/A | 4566 | 474.2 | N/A | 4566 | 474.2 | 474.2 |

Cost And Schedule Variance Explanations

Cost and Schedule variance reporting is not required on this FFP/CPFF contract.

Contract Comments

This is the first time this contract is being reported.

Deliveries and Expenditures

| Deliveries To Date | Plan To Date | Actual To Date | Total Quantity | Percent Delivered |
|---|---------------------|-----------------------|-----------------------|--------------------------|
| Development | 427 | 235 | 322 | 72.98% |
| Production | 9642 | 9642 | 43560 | 22.13% |
| Total Program Quantities Delivered | 10069 | 9877 | 43882 | 22.51% |

| Expenditures and Appropriations (TY \$M) | | | |
|---|--------|----------------------------|--------|
| Total Acquisition Cost | 6024.4 | Years Appropriated | 14 |
| Expenditures To Date | 1477.0 | Percent Years Appropriated | 56.00% |
| Percent Expended | 24.52% | Appropriated to Date | 2423.5 |
| Total Funding Years | 25 | Percent Appropriated | 40.23% |

Operating and Support Cost

Assumptions And Ground Rules

The unit of measure for tracking Operating and Support (O&S) costs is the Rocket Pod.

The service life of the GMLRS system is ten (10) years.

TOTAL ROCKET QTY 43560
TOTAL POD QTY 7260

| Costs BY2003 \$K | | |
|---|---|---------------------|
| Cost Element | GMLRS/GMLRS AW Avg Annual Cost per Rocket Pod | No GMLRS Antecedent |
| Unit-Level Manpower | 0.088 | -- |
| Unit Operations | 0.000 | -- |
| Maintenance | 0.000 | -- |
| Sustaining Support | 1.158 | -- |
| Continuing System Improvements | 0.223 | -- |
| Indirect Support | 0.657 | -- |
| Other | 0.596 | -- |
| Total Unitized Cost (Base Year 2003 \$) | 2.722 | -- |

| Total O&S Costs \$M | GMLRS/GMLRS AW | No GMLRS Antecedent |
|---------------------|----------------|---------------------|
| Base Year | 197.7 | -- |
| Then Year | 285.2 | -- |