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Department of Defense  
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

# Modernized Selected Acquisition Report (MSAR) Long Range Stand Off Weapon (LRSO)

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**

Long Range Stand Off Weapon

**Short Name**

LRSO

**PNO**

489

**Milestone Decision Authority**

Defense Acquisition Executive

**Lead Component**

Department of the Air Force

**Program Executive Office**Air Force Program Executive Officer/Nuclear  
Air Delivered**Joint Program**

No

**Acquisition Type**

Major Defense Acquisition Program

**Adaptive Acquisition Pathway**

Major Capability Acquisition

**Acquired Systems**

LRSO

**Acquisition Category**

ID

**Acquisition Status**

Active Acquisition

**Mission**

The Long Range Stand Off (LRSO) Cruise Missile is a long range survivable stand-off weapon capable of delivering lethal nuclear effect on strategic targets. LRSO will replace the currently fielded Air Launched Cruise Missile (ALCM) and will be integrated on both legacy and future bomber aircraft. The LRSO weapon system will be capable of penetrating and surviving advanced Integrated Air Defense Systems (IADS) from significant stand-off range to prosecute strategic targets in support of the Air Force's global attack capability and strategic deterrence core function.

**(U) Responsible Office****Program Executive Officer**

Air Force Program Executive Officer/Nuclear Air  
Delivered

Maj Gen John P. Newberry

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**Program Manager**

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## (U) Executive Summary

### Program Highlights Since Last Report

LRSO entered Engineering, Manufacturing, and Development (EMD) on July 1, 2021 after a four-year Technology Maturation and Risk Reduction (TMRR). Current Technical Performance Measures (TPMs), engineering analysis, and test results indicate LRSO is meeting, or exceeding, all six Key Performance Parameters (KPPs) and all nine Key System Attributes (KSAs) as defined in the Capability Design Document (CDD).

LRSO is implementing a design approach to develop a Modular Open System Architecture (MOSA). The defined approach includes the software and hardware organic to LRSO, as well as the life-cycle process such as logistical support, sustainment, and technology insertion. Implementation of MOSA is focused on the following system attributes:

- Reconfigurability
- Portability
- Maintainability, and
- Technology Insertion

Also, the Program Office continues to strengthen its Design for Reliability & Maintainability acquisition strategy, the marquee tenant of the LRSO program. In CY 2023, focused attention was on reliability growth testing to maximize the probability of success during the flight test program. An innovative approach of testing the "missile without a skin" permitted integrated hardware and software to be exposed to multiple environments resulting in the demonstration of numerous missile lives in a relatively short period of test duration.

LRSO is fully funded across the FYDP based on an independent cost estimate conducted by the CAPE office within the OSD. The program is executing on schedule to meet its Air Force Global Strike Command mandated fielding requirement as detailed in the CDD.

**Defense Cost and Resource Center and Cost and Software Data Reporting (CSDR) Compliance Rating: Green**

NOTE: Some of this Program's Executive Summary is Controlled Unclassified Information (CUI) and has been removed per the Implementation Plan for the DoD's Modernized Selected Acquisition Report Process, dated June 2023, which required the SAR be submitted without any designation relation to dissemination control.

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

### (U) History of Significant Developments Since Program Inception

Date	Description
May 2021	The LRSO Program successfully passed Milestone B.
February 2023	The LRSO Program successfully executed its Critical Design Review.

Date	Description
October 2023	The LRSO Program conducted six flight tests in 2023, demonstrating the cruise missile ability to safely separate and jettison from B-52H bomber aircraft.



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

Events		Development APB (Milestone) 6/30/2021 Objective	Development APB (Current) 6/30/2021 Objective / Threshold		Current Estimate 12/31/2023	Actual
REDACTED						
REDACTED						
REDACTED						
REDACTED						
REDACTED						

**Notes**

This Program's Schedule is Controlled Unclassified Information (CUI) and has been removed per the Implementation Plan for the DoD's Modernized Selected Acquisition Report Process, dated June 2023, which required the MSAR be submitted without any designation relation to dissemination control.

**Schedule Baseline Deviation Explanation**

None

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

Event	Date	Description
Other	12/31/2023	There are no known schedule risks with this program at this time.

**(U) Performance**

*Additional information for this section is provided in the classified annex to this submission.*

**(U) Performance Attributes**

(U) KPP 4: Aircraft Integration			KPP
Current Estimate 12/31/2023		(U) B-52	
Demonstrated Performance -		TBD	
Development APB (Current) 6/30/2021	Objective	(U) B-21	
	Threshold	(U) B-52	
Development APB (Milestone) 6/30/2021	Objective	(U) B-21	
(U) KPP 6: Training			KPP
Current Estimate 12/31/2023		(U) The LRSO training program shall allow for the qualification and certification of missile maintenance, weapons load crew, nuclear weapons (warhead) maintenance, aircrew, mission planners, and EOD personnel to pass an INSI prior to IOC.	
Demonstrated Performance -		TBD	
Development APB (Current) 6/30/2021	Objective	(U) T=0	
	Threshold	(U) The LRSO training program shall allow for the qualification and certification of missile maintenance, weapons load crew, nuclear weapons (warhead) maintenance, aircrew, mission planners, and EOD personnel to pass an INSI prior to IOC.	
Development APB (Milestone) 6/30/2021	Objective	(U) T=0	
(U) KPP 7: Energy			KPP
Current Estimate 12/31/2023		(U) The mandatory Energy KPP is not applicable to the LRSO since it is a pre-fueled, single use, expendable system that will be mated to its respective launch platform. Even when deployed, the LRSO missile in itself will not pose a burden on the energy supply chain or infrastructure.	
Demonstrated Performance -		TBD	
Development APB (Current) 6/30/2021	Objective	(U) T=0	
	Threshold	(U) The mandatory Energy KPP is not applicable to the LRSO since it is a pre-fueled, single use, expendable system that will be mated to its respective launch	

		platform. Even when deployed, the LRSO missile in itself will not pose a burden on the energy supply chain or infrastructure.
Development APB (Milestone)  6/30/2021	Objective	(U) T=0
(U) KPP 8: Force Protection		KPP
Current Estimate 12/31/2023		(U) The Force Protection KPP is not applicable to LRSO as it is not a manned system, nor is it a system designed to enhance personnel survivability. Carrier aircraft Force Protection KPPs are addressed in respective CDDs.
Demonstrated Performance -		TBD
Development APB (Current)  6/30/2021	Objective	(U) T=0
	Threshold	(U) The Force Protection KPP is not applicable to LRSO as it is not a manned system, nor is it a system designed to enhance personnel survivability. Carrier aircraft Force Protection KPPs are addressed in respective CDDs.
Development APB (Milestone)  6/30/2021	Objective	(U) T=0

**(U) Requirement Source:**

Sponsor(s): None

## 1. Document Type Not Provided

Notes: Capability Development Document dated August 28, 2020

**Notes**

1. (U) LRSO integration has been demonstrated on the B-52 via multiple captive carry and release missions. This refinement of LRSO-to-B-52 integration will continue throughout the LRSO EMD phase. Integration is on-track to support IOC.CH(10)2. (U) The LRSO training program is in planning as part of the awarded EMD contract. It will be proven via prototype development and multiple demonstrations of support equipment. The training program is on track to support a timely INSI.

**Performance Deviation Explanation**

None

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

Category (\$M) Base Year: 2021	Development APB (Milestone) 6/30/2021 CY\$ obs Objective	Development APB (Current) 6/30/2021 CY\$ obs Objective / Threshold		Current Estimate PB 2025 CY\$ obs / TY\$ obs	
RDT&E	6,104.3	6,104.3	6,714.7	5,793.6	6,353.3
Procurement	8,006.9	8,006.9	8,807.6	7,347.7	9,766.2
MILCON	122.2	122.2	134.4	118.4	142.4
O&M	0.0	0.0	0.0	-	-
R&MF	-	-	-	-	-
Total Acquisition	14,233.4	14,233.4	-	13,259.6	16,261.9
Program Acquisition Unit Cost	13.094	13.094	14.403	-	-
Average Procurement Unit Cost	7.850	7.850	8.635	-	-
Program End-Item Quantity					
Development	67	67		0	
Procurement	1020	1020		0	
O&M-Acquired	-	-		0	

**Budget Notes**

None

**Quantity Notes**

This Program's Quantities are Controlled Unclassified Information (CUI) and have been removed per the Implementation Plan for the DoD's Modernized Selected Acquisition Report Process, dated June 2023, which required the MSAR be submitted without any designation relation to dissemination control.

**Cost Baseline Deviation Explanation**

None

**(U) Risk and Sensitivity Analysis**

Current Procurement Estimate Risks (12/31/2023)	
1	There are no risks identified with the current estimate. At Milestone B the MDA directed the department to align the program budget with the CAPE ICE.
Current Baseline Risks (6/30/2021)	
None	

Original Baseline Risks (6/30/2021)
None

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

Category (CY\$M) Base Year: 2021	Current Baseline 06/30/2021	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	14,233.4	13,259.6	
Program Quantity	1,087	0	
PAUC	13.094	-	-
Average Procurement Unit Cost			
Procurement Cost	8,006.9	7,347.7	
Procurement Quantity	1,020	0	
APUC	7.850	-	-

**(U) Current Estimate Compared with Original Baseline**

Category (CY\$M) Base Year: 2021	Original Baseline 06/30/2021	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	14,233.4	13,259.6	
Program Quantity	1,087	0	
PAUC	13.094	-	-
Average Procurement Unit Cost			
Procurement Cost	8,006.9	7,347.7	
Procurement Quantity	1,020	0	
APUC	7.850	-	-

**(U) Cost Growth Details****Impacts of Schedule Changes on Unit Cost**

Not Applicable.

**Impacts of Performance Changes on Unit Cost**

Not Applicable.

**Actions taken or Proposed to Control Future Cost Growth**

Not Applicable.

**Status of Each Major Contract and Significant Factors Contributing to Cost and Schedule Variance; Projected Effects on Future Program Costs**

See Contracts section.

Notes

None

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

Category (\$M) Base Year: 2021	Development APB (Milestone) 6/30/2021 CY\$ obs Objective	Development APB (Current) 6/30/2021 CY\$ obs Objective / Threshold		Current Estimate CY\$ obs / TY\$ obs	
Total O&S	7,774.9	7,774.9	8,552.4	7,008.9	13,049.8
Total Disposal	-	-	-	50.7	93.8

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

Type: Program Office Estimate

Approved by: PEO - Newberry, John P, November 18, 2022

**Disposal/Demilitarization Cost**

Type: Program Office Estimate

Approved by: PEO - Newberry, John P, November 18, 2022

**Operating and Support Baseline Deviation Explanation**

None

**Cost Notes**

**O&S and Disposal Cost Sources:** For Programs with an O&S Cost estimate or Disposal Cost estimate the O&S Cost Source and Disposal Cost Source listed in the MSAR are inaccurate due to a system limitation. See MSAR Supplement for corrected source(s).

**(U) Operating and Support Variance with Prior Estimate**

(CY\$M) Base Year: 2021	Estimate	
Prior Estimate (12/31/2022)	7,035.6	
Current Estimate	7,008.9	
Category	Variance	Explanation
Unit-Level Manpower	0.0	
Unit Operations	0.0	
Maintenance	0.0	
Sustaining Support	0.0	



(CY\$M) Base Year: 2021	Estimate	
Continuing System Improvements	0.0	
Other	-26.7	Then Year O&S estimate is currently \$13,050M and has not changed since the Milestone B ICE. Change in Constant Year dollars is a result of updated inflation indices.
Not Categorized	0.0	

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

(CY\$M) Base Year: 2021							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
LRSO	3,229.0	66.6	528.5	2,005.3	1,129.1	50.5	7,008.9
Program	3,229.0	66.6	528.5	2,005.3	1,129.1	50.5	7,008.9

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

No Data

### (U) Operating and Support Cost Estimate Assumptions

System	Quantity to Sustain	Unit Expected Service Life (Years)	Unit of Measure	Fiscal Years Operational
LRSO	0	30.0	Years	2028 - 2062

### Additional O&S Estimate Assumptions

None

### Antecedent Estimate Assumptions

This Program's Antecedent System's Quantities are Controlled Unclassified Information (CUI) and therefore the Annual O&S Cost by Unit has been removed per the Implementation Plan for the DoD's Modernized Selected Acquisition Report Process, dated June 2023, which required the MSAR be submitted without any designation relation to dissemination control.

### O&S Annual Cost Calculation Memo

This Program's Quantities are Controlled Unclassified Information (CUI) and therefore the Annual O&S Cost by Unit has been removed per the Implementation Plan for the DoD's Modernized Selected Acquisition Report Process, dated June 2023, which required the MSAR be submitted without any designation relation to dissemination control.



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

Event	Date	Description
Other	12/31/2023	Current calculations indicate that when four or more stores are loaded on the rotary launcher, the stores clash with the fuel tank. Risk is fully mitigated and closure is pending receipt of final documentation. Projected closure: Jan 2025.

**(U) Performing Activities and Contracts****(U) External Government Activities**

None

**(U) Contracts and Efforts**

Contract Title	Contract Number / Effort	Contractor	Phase
EMD	21-C-0001 (Redacted)	RAYTHEON COMPANY	Development

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

Contract Number:	21-C-0001 (Redacted)	Order Number:	-
Contract Title:	EMD	Strategy:	-
CAGE:	15090 - RAYTHEON COMPANY	Contracting Office:	-
City, State/Province:	TUCSON, AZ		
Effort Number:	-	Supported Phase:	Development
Type:	Cost Plus Fixed Fee	Award Date:	July 1, 2021
Latest Modification Date:	-	Definitization Date:	-
Latest Modification No.:	P00053	Work Start Date:	-
Technical Data Rights:	-		
Notes:	<b>Target Price Change Explanation</b> The Target Price Change has increased due to additional scope to characterize peculiar support equipment options.		

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
1,844.5 -	1,860.9 -	2,111.5 2,135.0	-	-	-

Work Completed (%):	37.63%
Cost Variance (TY\$M):	-154.0
Schedule Variance (TY\$M):	-47.7

**Factors Contributing to Cost Variance and Projected Effects on Program Costs**

The unfavorable Cost Variance has been influenced by global price escalation and impacted by overruns in discrete labor tasks. Some tasks required more support than originally planned while others are a result of inefficiencies necessary to hold schedule. Corrective actions and staffing levels are being assessed through many avenues (monthly latest revised estimate reviews, rolling wave integrated baseline reviews, etc) and implemented where applicable. The cost variance is expected to increase to match the variance at complete at contract completion (February 2027). The program office does not anticipate any negative APB impacts.

**Factors Contributing to Schedule Variance and Projected Effects on Program Schedule**

Material delays continue to drive unfavorable Schedule Variance. However, mission focused contract incentives positively influencing contractor behavior has seen favorable Schedule Variance in five of the last nine months -- RTX Contractor continuing to heavily engage with suppliers executing subcontract incentive strategies to create schedule margin.

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

	Total Estimate	Actual to Date	Actual, Percent Complete
Years Appropriated	-	-	-
Appropriations (TY, \$M)	16,261.9	16,261.9	100.0%
Expenditures (TY, \$M)	16,261.9	3,362.3	20.7%

**(U) End Items Delivered**

No Data

**Notes**

This Program's Quantities and Deliveries are Controlled Unclassified Information (CUI) and has been removed per the Implementation Plan for the DoD's Modernized Selected Acquisition Report Process, dated June 2023, which required the SAR be submitted without any designation relation to dissemination control.

**(U) International Program Aspects****General Memo**

Not Applicable

**Exportability and Business Issues**

Not Applicable

Is design for international exportability planned?	No	Industry/Partner Exportability Cost-Sharing?	No
If not, has the MDA approved an exportability waiver for a U.S.-only design?	Not Applicable		

**Program Protection: Technology Security and Foreign Disclosure Issues**

Not Applicable

**(U) Agreements**

No International Agreements have been defined for LRSO



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# **Modernized Selected Acquisition Report Supplement**

## **Long Range Stand Off Weapon (LRSO)**

FY 2025 President's Budget  
As of: December 31, 2023

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## **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**  
Long Range Stand Off Weapon

**Short Name**  
LRSO

**PNO**  
489

**Lead Component**  
Air Force

**AAF Pathway**  
MCA

**Acquisition Type**  
MDAP

**Acquired Systems**  
LRSO

Related Programs

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

## **Program Use of the Adaptive Acquisition Framework**

This acquisition is accomplished by a single program in the Major Capability Acquisition Pathway.

## Technologies and Systems Engineering

### Long Range Stand Off Weapon

#### Major Software Efforts

Title	Status	Fielding Date	Description

#### Major Engineering Changes

Title	Original Need Date	Fielding Date	Description, Rationale and Program Impacts

## Funding Sources (Acquisition)

### Acquisition Funding Notes

#### Long Range Stand Off Weapon

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
RDT&E	3600F	05	0604932F - Long Range Standoff Weapon	0604932F	657011 - Long Range Stand-Off		
RDT&E	3600F	05	0101125F - Nuclear Weapons Modernization	0101125F	657008 - Long Range Stand-Off		
Procurement	3020F	02	MLRSO1 - Long Range Stand-Off Weapon	0101238F	-		
Procurement	3080F	03	833140 - Strategic Command And Control	0101238F	-		
MILCON	3300F	01	AFGSC25006 - LRSO WEDGE	0604932F	-		

## Funding Sources (Operating and Support)

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

### Operating and Support Funding Notes

The program is not receiving any O&S funding for the FY 2025 PB or during the current FYDP.

### Long Range Stand Off Weapon

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

### Long Range Stand Off Weapon

*Some data for this section cannot be provided in an unclassified report*

#### Acquisiton Estimates

Category	PB 2025	TY (\$M)	Current Base Year	Original Base Year	Report Fiscal Year
			CY2021 (\$M)	CY2021 (\$M)	CY2024 (\$M)
RDT&E		6,353.3	5,793.6	5,793.6	6,646.3
Procurement		9,766.2	7,347.7	7,347.7	8,429.1
MILCON		142.4	118.4	118.4	135.8
O&M		-	-	-	-
Total Acquisition		16,261.9	13,259.6	13,259.6	15,211.2
PAUC		n/a	n/a	n/a	n/a
APUC		n/a	n/a	n/a	n/a

#### Acquisiton End-Item Quantities

System	PB 2025	Development	Procurement
LRSO		-	-
Total		-	-

#### Unit Description

The primary unit of measure is a cruise missile.

Per the Implementation Plan for the DoD's Modernized Selected Acquisition Report Process, dated June 2023, which required the MSAR be submitted without any designation relation to dissemination control, quantity data has been removed from this Unclassified MSAR.

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

Appropriation	Prior	2024	2025	2026	2027	2028	2029	To Complete	Total
RDT&E	3,774.0	911.4	623.5	601.6	288.3	76.5	78.0	-	6,353.3
Procurement	31.5	66.8	210.3	295.5	1,074.9	1,685.0	2,210.5	4,191.6	9,766.2
MILCON	38.0	15.5	8.4	-	-	60.4	20.1	-	142.4
O&M	-	-	-	-	-	-	-	-	-
PB 2025 Total	3,843.5	993.7	842.2	897.1	1,363.2	1,821.9	2,308.6	4,191.6	16,261.9

**Annual Acquisition Estimates by Appropriation Account**

(Aligned to Budget Position: PB 2025)

**Long Range Stand Off Weapon**

Source for TY\$-CY\$ Conversion: SAF/FMCE Raw and Weighted Inflation Indices for DAF Accounts: 23 Feb 2024

<b>3600F - Research, Development, Test &amp; Eval, AF</b>					
<b>fiscal year</b>		<b>Other/ Unallocated</b>	<b>Total TY(\$M)</b>	<b>Weighted Rate</b>	<b>Total CY2021 (\$M)</b>
<b>Total</b>		<b>6,353.3</b>	<b>6,353.3</b>	<b>-</b>	<b>5,793.6</b>
2013		1.836	1.8	0.880479	2.1
2014		5.000	5.0	0.892754	5.6
2015		3.438	3.4	0.901722	3.8
2016		16.143	16.1	0.915511	17.6
2017		102.350	102.3	0.934669	109.5
2018		437.824	437.8	0.954318	458.8
2019		650.211	650.2	0.972059	668.9
2020		681.795	681.8	0.997060	683.8
2021		373.499	373.5	1.043904	357.8
2022		580.054	580.1	1.099905	527.4
2023		921.891	921.9	1.138999	809.4
2024		911.406	911.4	1.168010	780.3
2025		623.491	623.5	1.193076	522.6
2026		601.584	601.6	1.218131	493.9
2027		288.272	288.3	1.243712	231.8
2028		76.487	76.5	1.269830	60.2
2029		77.997	78.0	1.296496	60.2



**Annual Acquisition Estimates by Appropriation Account**

(Aligned to Budget Position: PB 2025)

**Long Range Stand Off Weapon**

Source for TY\$-CY\$ Conversion:

SAF/FMCE Raw and Weighted Inflation Indices for DAF Accounts: 23 Feb 2024

<b>3020F - Missile Procurement, Air Force</b>									
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 CY2021 (\$M)
<b>Total</b>	<b>8,948.4</b>	<b>-</b>	<b>817.8</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>9,766.2</b>	<b>-</b>	<b>7,347.7</b>
2013							-	0.895024	-
2014							-	0.908231	-
2015							-	0.919372	-
2016							-	0.937172	-
2017							-	0.960992	-
2018							-	0.984964	-
2019							-	1.013650	-
2020							-	1.053041	-
2021							-	1.100565	-
2022							-	1.141899	-
2023			31.454				31.5	1.171360	26.9
2024			66.816				66.8	1.197530	55.8
2025			210.335				210.3	1.222853	172.0
2026			295.523				295.5	1.248533	236.7
2027	1,074.934						1,074.9	1.274752	843.2
2028	1,685.006						1,685.0	1.301522	1,294.6
2029	2,210.506					-	2,210.5	1.328854	1,663.5
2030	2,231.460					-	2,231.5	1.356760	1,644.7
2031	1,746.467					-	1,746.5	1.385252	1,260.8
2032			105.942			-	105.9	1.414342	74.9
2033			107.735			-	107.7	1.444043	74.6

**Annual Acquisition Estimates by Appropriation Account**

(Aligned to Budget Position: PB 2025)

**Long Range Stand Off Weapon**

Source for TY\$-CY\$ Conversion: SAF/FMCE Raw and Weighted Inflation Indices for DAF Accounts: 23 Feb 2024

<b>3300F - Military Construction, Air Force</b>					
<b>fiscal year</b>		<b>Other/ Unallocated</b>	<b>Total TY(\$M)</b>	<b>Weighted Rate</b>	<b>Total CY2021 (\$M)</b>
<b>Total</b>		<b>142.4</b>	<b>142.4</b>	<b>-</b>	<b>118.4</b>
2013			-	0.903574	-
2014			-	0.917480	-
2015			-	0.934468	-
2016			-	0.954970	-
2017			-	0.977169	-
2018		38.000	38.0	1.000639	38.0
2019			-	1.031487	-
2020			-	1.076462	-
2021			-	1.123971	-
2022			-	1.159708	-
2023			-	1.187188	-
2024		15.500	15.5	1.212104	12.8
2025		8.400	8.4	1.237597	6.8
2026			-	1.263586	-
2027			-	1.290122	-
2028		60.400	60.4	1.317214	45.9
2029		20.100	20.1	1.344876	14.9

## Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

### Long Range Stand Off Weapon

*Some data for this section cannot be provided in an unclassified report*

3600F - Research, Development, Test & Eval, AF				
fiscal year	LRSO			Total
<b>Total</b>	-			-
Undistributed				-

## Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

### Long Range Stand Off Weapon

*Some data for this section cannot be provided in an unclassified report*

3020F - Missile Procurement, Air Force				
fiscal year	LRSO			Total
<b>Total</b>	-			-
Undistributed				-

## **Nuclear Costs**

### **Long Range Stand Off Weapon**

#### **Program's Use of Department of Energy Resources**

None

## Operational Fielding Plan

### Long Range Stand Off Weapon

*Some data for this section cannot be provided in an unclassified report*

#### System: LRSO

#### Fielding and Inventory Notes

Some of this Program's Operational Fielding Plan contains Controlled Unclassified Information (CUI) and have been removed per the Implementation Plan for the DoD's Modernized Selected Acquisition Report Process, dated June 2023, which required the MSAR be submitted without any designation relation to dissemination control.

#### LRSO Fielding Plan and Inventory

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

## O&S Independent Cost Estimate

### Long Range Stand Off Weapon

#### Independent and Current Cost Estimate Comparison

Category	CY2021 (\$M)	Independent Cost Estimate 5/24/2021	Current Estimate 10/25/2023	Variance with ICE (%)
Unit-Level Manpower		3,581.4	3,229.0	-10%
Unit Operations		74.1	66.6	-10%
Maintenance		585.9	528.5	-10%
Sustaining Support		2,224.7	2,005.3	-10%
Continued System Improvements		1,252.9	1,129.1	-10%
Other		55.9	50.5	-10%
<b>Total O&amp;S</b>		<b>7,774.9</b>	<b>7,008.9</b>	<b>-10%</b>

#### Independent Cost Estimate Source

Event: Milestone B  
 Type: Independent Cost Estimate  
 Approved by: OSD Cost Assessment & Program Evaluation, May 24, 2021

#### Current Cost Estimate Source

Type: Program Office Estimate  
 Approved by: PEO - Newberry, John P, October 25, 2023

#### Cost Estimate Variance Explanation

Then Year O&S estimate is currently \$13,050M and has not changed since the Milestone B ICE. The variance between the FY 2021 Milestone B ICE and the FY 2023 POE is a result of updated inflation indices.

**Annual Operating and Support Estimates by Cost Element****Long Range Stand Off Weapon****System: LRSO**

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 CY2021 (\$M)
<b>Total</b>	<b>3,229.0</b>	<b>66.6</b>	<b>528.5</b>	<b>2,005.3</b>	<b>1,129.1</b>	<b>50.5</b>	<b>7,008.9</b>
2028	90.713	1.871	14.846	15.437	4.548	-	127.4
2029	90.847	1.873	14.868	15.460	5.226	-	128.3
2030	90.937	1.875	14.883	15.475	4.895	-	128.1
2031	90.985	1.876	14.891	56.479	6.243	0.774	171.2
2032	91.059	1.878	14.903	56.526	4.902	0.775	170.0
2033	91.158	1.880	14.919	56.587	6.255	0.775	171.6
2034	91.279	1.882	14.939	59.452	4.913	0.777	173.2
2035	91.356	1.884	14.952	63.279	6.269	0.777	178.5
2036	91.453	1.886	14.967	59.566	4.923	0.778	173.6
2037	91.507	1.887	14.976	59.601	6.279	0.778	175.0
2038	91.639	1.890	14.998	47.827	16.540	0.780	173.7
2039	91.727	1.891	15.012	47.873	29.661	0.780	186.9
2040	91.829	1.894	15.029	47.926	28.335	0.781	185.8
2041	91.888	1.895	15.039	47.957	29.713	0.782	187.3
2042	91.961	1.896	15.051	47.995	28.376	0.782	186.1
2043	92.098	1.899	15.073	55.682	29.781	0.783	195.3
2044	92.138	1.900	15.080	107.647	272.180	0.784	489.7
2045	92.241	1.902	15.096	107.767	274.591	0.785	492.4
2046	92.350	1.904	15.114	67.786	273.551	0.786	451.5
2047	92.416	1.906	15.125	60.193	7.088	0.786	177.5
2048	92.536	1.908	15.145	60.271	4.981	0.787	175.6
2049	92.612	1.910	15.157	60.321	6.355	0.788	177.1
2050	92.692	1.911	15.170	60.373	4.990	0.789	175.9
2051	92.775	1.913	15.184	64.263	6.366	0.789	181.3
2052	92.904	1.916	15.205	60.511	5.001	0.790	176.3
2053	92.988	1.917	15.219	60.566	6.381	0.791	177.9
2054	93.072	1.919	15.233	60.620	5.010	0.792	176.6
2055	93.155	1.921	15.246	60.674	6.392	0.792	178.2
2056	93.236	1.923	15.259	60.727	5.019	0.793	177.0
2057	93.354	1.925	15.279	60.804	6.406	0.794	178.6
2058	93.427	1.927	15.291	60.852	5.029	1.838	178.4
2059	93.535	1.929	15.308	60.922	6.418	4.526	182.6
2060	93.636	1.931	15.325	60.987	5.040	4.531	181.4
2061	93.693	1.932	15.334	61.025	6.429	6.924	185.3
2062	93.817	1.935	15.354	55.821	5.050	7.383	179.4
2063						4.094	4.1