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Sep 27, 2024

Department of Defense
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

Modernized Selected Acquisition Report (MSAR)

Common Infrared Countermeasure (CIRCM)

FY 2023 President's Budget

Effective: December 31, 2023

Defense Acquisition Visibility Environment

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Table of Contents

Common DoD Abbreviations	3
Program Description	5
Responsible Office	6
Executive Summary	7
Schedule	10
Performance	11
Acquisition Budget Estimate	12
Unit Costs	14
Life-Cycle Costs	15
Performing Activities and Contracts	17
Production	21
Deliveries and Expenditures	22
International Program Aspects	23

(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 Common Infrared Countermeasure	Short Name CIRCM
PNO 446	Milestone Decision Authority Component Acquisition Executive
Lead Component Department of the Army	Program Executive Office PEO Intelligence, Electronic Warfare & Sensors (IEWS)
Joint Program No	Acquisition Type Major Defense Acquisition Program
Adaptive Acquisition Pathway Major Capability Acquisition	Acquired Systems CIRCM
Acquisition Category IC	
Acquisition Status Active Acquisition	

Mission

Common Infrared Countermeasure (CIRCM), an ACAT IC program, is a laser-based infrared (IR) countermeasure system designed to work in conjunction with Service missile warning systems. CIRCM provides laser based infrared countermeasure systems for rotary-wing, tilt-rotor, and small fixed wing aircraft across the Department of Defense.

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

PEO Intelligence, Electronic Warfare & Sensors
(IEWS)

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(U) Executive Summary

Program Highlights Since Last Report

CIRCM requirements are stable, and funding is adequate to meet cost, schedule, and performance baselines. Risk did not increase since the last SAR. Below are the program highlights since the last SAR:

- Interim Contractor Logistics Support (ICLS) Year 4 Task Order Award - 2/14/2023
- 1-185th New Equipment Training (NET) - 2/23/2023
- Next Generation Jupiter Laser Flight Testing - 3/7/2023
- UH-60M A-Kit Contract Award (200) - 3/1/2023
- Full Rate Production (FRP) B-Kit Delivery Order (DO) 3 Mod - 3/27/2023
- AH64E v4 Conditional Materiel Release (CMR) Approved (AMCOM) 5/8/2023
- CH-47F BLK II A-Kit Non-Recurring Engineering (NRE) Contract Awarded 5/31/2023
- 1-17 Attack Battalion NET 6/6/2023
- DASA-CE Sufficiency Memo Approval 7/13/2023
- Next Generation Jupiter Laser Final Executive Materiel Design Review 7/18/2023
- Engineering Services Year 4 Task Order Award 8/25/2023
- CH-47 Technical Manual Verification 8/31/2023
- H-60 A-Kit Option Award (200) 9/27/2023
- 60M Retrofit Modification Work Order (MWO) Verification 10/5/2023
- 3-25th GSAB NET 10/3/2023
- 1000th Solaris Laser Delivery 10/16/2023
- Jupiter Reliability Characterization Testing (RCT) Complete 10/19/2023
- 5.1 Software Ground Testing Completed 10/30/2023
- 1000th Pointer Tracker Delivery 11/8/2023
- FRP B-Kit Delivery Order 4 Award - 11/15/2023
- Next Generation Jupiter Laser Production Ramp Award 11/30/2023
- 10MD NET 11/30/2023
- APB Update for Acquisition Procurement Objective (APO) Increase Approved 12/1/2023
- 500th System Processor Unit (SPU) Delivery 12/7/2023

NGSC and their major suppliers (Leonardo DRS and Daylight DRS) are delinquent in delivery and approval of several CSDR submissions. The CIRCM team has provided guidance to NGSC and has enlisted support from the Defense Contract Management Agency (DCMA) office. Most of the reports have now been submitted, but the suppliers are having some challenges with gaining approvals from OSD's Cost Assessment Data Enterprise (CADE). All parties are working to resolve the issues to obtain a GREEN status. The product office anticipates the NGSC and Daylight DRS CSDRs will be approved by April 30, 2024, and Leonardo DRS CSDRs will be approved by September 30, 2024.

CIRCM currently has no significant software-related issues.

There are international requests for CIRCM, and pricing details are being developed, but there are no active FMS cases currently. CIRCM is currently working on an export design and is coordinating with the Technology Security & Foreign Disclosure Processes for release.

(U) History of Significant Developments Since Program Inception

Date	Description
November 2023	Next generation Jupiter laser production ramp awarded (50 lasers).
November 2023	FRP1.4 was executed in November 2023 (125 B-Kits).
November 2022	FRP1.3 was executed in November 2022 (125 B-Kits).
September 2022	Program completed Initial Operational Capability (IOC), which consists of installs on 1 Combat Aviation Brigade (CAB).
July 2022	ReARMM EXORD 166-22 approved, expediting A-Kit installs.
April 2022	AROC approved APO change to A-Kits and B-Kits.
March 2022	FRP1.2 was executed in Mar 2022 (110 B-Kits).
July 2021	The AAE approved FRP APB dated July 7, 2021.
April 2021	The AAE approved FRP for the CIRCM program in an ADM dated April 29, 2021.
April 2021	FRP1.1 was executed in April 2021 (120 B-Kits).
April 2020	OSD performed an ITRA, and CIRCM received a low-risk rating across all areas related to development, testing, fielding and sustainment.
March 2020	CIRCM CPD Revision reduced CIRCM MTBOMF requirements due to Operational Mode Summary/Mission Profile (OMS/MP) change dated November 13, 2018. OMS/MP change from 11-hour one company Air Assault mission to a 9.2-hour Air Assault mission. Reduced CIRCM MTBOMF requirement from (O) 214 hours to 179 hours and reduced MTBOMF from (T) 361 hours to 302 hours. During IOT&E, CIRCM exceeded all MTBOMF requirements.
February 2020	Accelerated FUE (10 CIRCM installs on UH-60Ms).
January 2020	LRIP 3.2 was executed (101 CIRCM B-Kits).
December 2019	Program completed IOT&E.
July 2019	LRIP 3.1 was executed July 2019 (24 CIRCM B-Kits).
December 2018	LRIP 2 was executed December 2018 (24 CIRCM B-Kits).
November 2018	The AAE approved the Milestone C APB.
October 2018	CIRCM completed Reliability Demonstration Testing (RDT) which demonstrated a 71% reduction in total failures from previous testing. The Army Test and Evaluation Command final score of 151 hours MTBOMF at 50% confidence and a Mission Effecting Fix Effectiveness Factor adjusted score of 215 hours MTBOMF in the RDT environment. The Milestone C exit criteria is 150 hours MTBOMF.
September 2018	The Army Acquisition Executive (AAE) approved entry into the Production and Deployment Phase/Milestone C, and LRIP up to 178 B-Kits (10 percent of the total quantity of 1,781 B-Kits).
August 2018	The JROC approved the CIRCM CPD.
August 2018	The Assistant Secretary of the Army for Financial Management and Comptroller approved the CIRCM Milestone C Army Cost Position.
November 2017	The DAE signed an ADM that delegated MDA for CIRCM to the Secretary of the Army, and designated CIRCM as an ACAT IC Program.
November 2017	The U.S. Government and NGSC completed negotiations on the contract modification for the \$22.9M cost over-run and a six-month contract extension.
July 2016	The DAE approved the CIRCM Development APB. The APB established program threshold and objective values for the minimum number of cost, schedule and performance attributes that describe the program over its life cycle.
August 2015	The DAE signed the Milestone B ADM authorizing entry into EMD and certifying all applicable provisions of section 2366b, title 10, U.S. Code.
July 2014	An ADM approved release of the request for proposal for CIRCM EMD and directed the

Date	Description
	Army to return for a Milestone B DAB prior to award of the EMD contract and down select to one vendor.
December 2011	CIRCM received an ADM approval to enter Technology Demonstration Phase at Milestone A with two vendors to foster competition and reduce risk.

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

Events		APB Change 2 (Current) 11/30/2023 Objective / Threshold		Current Estimate 12/31/2023	Actual
MDD	MDD	Jul 2009	Jul 2009	-	1 Jul 2009
Milestone A	MS A	Dec 2011	Dec 2011	-	1 Dec 2011
Preliminary Design Review	PDR	Jul 2013	Jul 2013	-	31 Jul 2013
Milestone B	MS B	Aug 2015	Aug 2015	-	15 Aug 2015
Critical Design Review	CDR	Oct 2016	Oct 2016	-	27 Oct 2016
Milestone C	MS C	Sept 2018	Sept 2018	-	14 Sept 2018
LRIP 2	LRIP Decision	Jun 2019	Dec 2019	-	20 Dec 2018
IOT&E Start	IOT&E	Jun 2019	Dec 2019	-	10 Jun 2019
First Unit Equipped	Other	Feb 2020	Feb 2020	-	28 Feb 2020
Full Rate Production	FRP Decision	Apr 2021	Apr 2021	-	13 Apr 2021
Initial Operational Capability	IOC	Sept 2022	Sept 2022	-	20 Sept 2022

Notes

None

Schedule Baseline Deviation Explanation

None

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

None

(U) Performance

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

(U) Performance Attributes

Sustainment Materiel Availability			KPP
Current Estimate 12/31/2023		90.8%	
Demonstrated Performance -		-	
APB Change 2 (Current) 11/30/2023	Objective	88%	
	Threshold	74%	
Sustainment Operational Availability			KPP
Current Estimate 12/31/2023		98.7	
Demonstrated Performance 11/28/2022		98.7	
APB Change 2 (Current) 11/30/2023	Objective	98%	
	Threshold	95%	

(U) Requirement Source:

Sponsor(s): United States Army

1. Capability Production Document, *CIRCM CPD*

Validated By: Army Requirements Oversight Council, March 17, 2020

Notes

Current Materiel Availability estimate based on AMSA modeling. Current Operational Availability demonstrated performance based on Nov 2022 scoring board results. Currently meets objective for the cost estimate and is expected to continue to meet objective when the APB update occurs in 3Q FY2023.

Performance Deviation Explanation

None

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

Category (\$M) Base Year: 2018	APB Change 2 (Current) 11/30/2023 CY\$ obs Objective / Threshold		Current Estimate PB 2023 CY\$ obs / TY\$ obs	
	RDT&E	950.4	1,045.4	949.6
Procurement	3,975.4	4,373.0	3,967.6	5,512.4
MILCON	0.0	0.0	0.0	0.0
O&M	24.1	26.5	24.3	32.4
Total Acquisition	4,949.9	-	4,941.5	6,599.2
Program Acquisition Unit Cost	2.431	2.674	2.427	3.241
Average Procurement Unit Cost	2.000	2.200	1.996	2.773
Program End-Item Quantity				
Development	48		48	
Procurement	1988		1988	
O&M-Acquired	-		-	

Budget Notes

Updated APB approved December 1, 2023. APB was updated to account for AROC approved APO increase in B-Kits, and decrease in A-Kits.

Quantity Notes

None

Cost Baseline Deviation Explanation

None

(U) Risk and Sensitivity Analysis

Current Procurement Estimate Risks (12/31/2023)
None
Current Baseline Risks (11/30/2023)
None
Original Baseline Risks (7/8/2016)

The OSD CAPE ICE was approved as the APB baseline estimate for Milestone B in August 2015. The OSD CAPE ICE cost model reflects a 50% Confidence Level in accordance with the Army Cost Guidance. The most significant cost driver in the CIRCM estimate is the recurring production cost for the B-Kits. LRIP was included in the current EMD contract awarded in a competitive environment. Production contract unit pricing will be determined after the FRP decision which is planned for the second quarter FY 2020. Factors that may impact the production contract unit pricing include: award outside of a competitive environment, economies of scale achieved through optimizing lot procurement and impacts of Diminishing Manufacturing Sources. The unit of measure for the CIRCM APUC and PAUC calculation is the B-Kit. There is cost risk associated with the length of the CIRCM procurement program - production is planned through FY 2032. Due to the length of the production program and the difficulties in accurately forecasting future inflation, there is potential for increased TY cost, if inflation increases at a rate greater than projected in the OSD inflation rates.

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

Category (CY\$M) Base Year: 2018	Current Baseline 11/30/2023	Current Estimate PB 2023	% Change
Program Acquisition Unit Cost			
Acquisition Cost	4,949.9	4,941.5	
Program Quantity	2,036	2,036	
PAUC	2.431	2.427	-0.17%
Average Procurement Unit Cost			
Procurement Cost	3,975.4	3,967.6	
Procurement Quantity	1,988	1,988	
APUC	2.000	1.996	-0.20%

(U) Current Estimate Compared with Original Baseline

Category (CY\$M) Base Year: 2015	Original Baseline 07/08/2016	Current Estimate PB 2023	% Change
Program Acquisition Unit Cost			
Acquisition Cost	2,537.1	4,697.8	
Program Quantity	1,124	2,036	
PAUC	2.257	2.307	2.22%
Average Procurement Unit Cost			
Procurement Cost	1,782.5	3,772.0	
Procurement Quantity	1,076	1,988	
APUC	1.657	1.897	14.48%

The Current Estimate's constant-year dollars have been converted from Base Year 2018 to Base Year 2015 using the National Defense Budget Estimates for FY 2025 (Green Book).

(U) Cost Growth Details

Actions taken or Proposed to Control Future Cost Growth

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: 2018	APB Change 2 (Current) 11/30/2023 CY\$ obs Objective / Threshold		Current Estimate CY\$ obs / TY\$ obs	
	Total O&S	735.8	809.4	735.8
Total Disposal	-	-	4.1	8.6

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

Type: Program Office Estimate

Approved by: PMO ASE, December 01, 2023

Disposal/Demilitarization Cost

Type: Program Office Estimate

Approved by: DASA/CE, July 13, 2023

Operating and Support Baseline Deviation Explanation

None

Cost Notes

Annual Operating and Support Costs per Unit Compared with Antecedent System unavailable at this time.

(U) Operating and Support Variance with Prior Estimate

(CY\$M) Base Year: 2018	Estimate	
Prior Estimate (date not provided)	1,011.7	
Current Estimate	735.8	
Category		
	Variance	Explanation
Unit-Level Manpower	0.0	Prior cost variance data not available at this time
Unit Operations	0.0	Prior cost variance data not available at this time
Maintenance	0.0	Prior cost variance data not available at this time
Sustaining Support	0.0	Prior cost variance data not available at this time
Continuing System Improvements	0.0	Prior cost variance data not available at this time
Other	0.0	Prior cost variance data not available at this time

(CY\$M) Base Year: 2018	Estimate	
Not Categorized	-275.9	

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

(CY\$M) Base Year: 2018							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
CIRCM	-	1.5	380.8	210.9	138.5	4.1	735.8
Program	-	1.5	380.8	210.9	138.5	4.1	735.8

(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

The antecedent values are not available at this time.

O&S Annual Cost Calculation Memo

None

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

Activity Title	Government Entity	Phase
A-Kit Installation	AMCOM Field Maintenance Directorate	Production
AH-64E A-Kit Manufacturing	Aviation Development Directorate- Ft Eustis	Production
UH-60M, CH-47F, & AH-64E A-Kit Manufacturing	AMCOM Logistics Support Facility Management Activity	Production
Testing & Support	Redstone Test Center	Sustainment

(U) Activity Identification

Activity Title: A-Kit Installation **Supported Phase:** Production
CAGE: -- AMCOM Field Maintenance Directorate **Work Start Date:** -
City, State/Province: Redstone Arsenal, AL
Notes: AMCOM Field Maintenance Directorate provides labor for CIRCM A-Kit installations at multiple sites CONUS and OCONUS.

(U) Activity Identification

Activity Title: AH-64E A-Kit Manufacturing **Supported Phase:** Production
CAGE: -- Aviation Development Directorate- Ft Eustis **Work Start Date:** -
City, State/Province: Ft Eustis, VA
Notes: Production and delivery of AH-64E A-Kits. ADD-Ft Eustis is the original design activity for the AH-64E A-Kit.

(U) Activity Identification

Activity Title: UH-60M, CH-47F, & AH-64E A-Kit Manufacturing **Supported Phase:** Production
CAGE: -- AMCOM Logistics Support Facility Management Activity **Work Start Date:** -
City, State/Province: Redstone Arsenal, AL
Notes: AMCOM Logistics Support Facility Management Activity (LSFMA) provides oversight for A-Kit manufacturing with various vendors.

(U) Activity Identification

Activity Title: Testing & Support **Supported Phase:** Sustainment
CAGE: -- Redstone Test Center **Work Start Date:** -
City, State/Province: Redstone Arsenal, AL
Notes: Continuing test and analysis/support for the CIRCM program such as regression flight testing and SW testing.

(U) Contracts and Efforts

Contract Title	Contract Number / Effort	Contractor	Phase
CIRCM FRP DO 2 B-Kits	W58RGZ-21-D-0028 / W58RGZ22F0178 / -2	Northrop Grumman Systems Corporation	Production
CIRCM FRP DO 3 B-Kits	W58RGZ-21-D-0028 / W58RGZ23F0107 / -3	Northrop Grumman Systems Corporation	Production
CIRCM FRP DO 4 B-Kits	W58RGZ-21-D-0028 / W58RGZ24F0073 / -4	Northrop Grumman Systems Corporation	Production

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

Contract Number: W58RGZ-21-D-0028 / W58RGZ22F0178 **Order Number:** W58RGZ22F0178

Contract Title: CIRCM FRP DO 2 B-Kits **Strategy:** FAR 16.5: Indefinite Delivery Indefinite Quantity

CAGE: 26916 - Northrop Grumman Systems Corporation **Contracting Office:** ACC Redstone

City, State/Province: Rolling Meadows, IL

Effort Number: -2 **Supported Phase:** Production

Type: Firm-Fixed-Price **Award Date:** February 2, 2022

Latest Modification Date: August 15, 2023 **Definitization Date:** February 2, 2022

Latest Modification No.: P00003 **Work Start Date:** February 2, 2022

Technical Data Rights: Government Purpose License 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
144.0 144.0	144.0 144.0	144.0 144.0	34	34	34

Work Completed (%): 16.39%

Cost Variance (TY\$M): 0.0

Schedule Variance (TY\$M): 0.0

Factors Contributing to Cost Variance and Projected Effects on Program Costs

No EVM reported. FFP contract type.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

No EVM reported. FFP contract type.

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

Contract Number: W58RGZ-21-D-0028 / W58RGZ23F0107 **Order Number:** W58RGZ23F0107

Contract Title: CIRCM FRP DO 3 B-Kits **Strategy:** FAR 16.5: Indefinite Delivery Indefinite Quantity

CAGE: 26916 - Northrop Grumman Systems Corporation **Contracting Office:** ACC Redstone

City, State/Province: Rolling Meadows, IL

Effort Number: -3 **Supported Phase:** Production

Type: Firm-Fixed-Price **Award Date:** November 21, 2022

Latest Modification Date: November 21, 2022 **Definitization Date:** -

Latest Modification No.: P00003 **Work Start Date:** November 21, 2022

Technical Data Rights: Government Purpose License 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
142.3	142.3	142.3	142.3	142.3	142.3	125	-	-

Work Completed (%): -

Cost Variance (TY\$M): 0.0

Schedule Variance (TY\$M): 0.0

Factors Contributing to Cost Variance and Projected Effects on Program Costs

No EVM reported. FFP contract type.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

No EVM reported. FFP contract type.

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

Contract Number: W58RGZ-21-D-0028 / W58RGZ24F0073 **Order Number:** W58RGZ24F0073

Contract Title: CIRCM FRP DO 4 B-Kits **Strategy:** -

CAGE: 26916 - Northrop Grumman Systems Corporation **Contracting Office:** ACC Redstone

City, State/Province: Rolling Meadows, IL

Effort Number: -4 **Supported Phase:** Production

Type: Firm-Fixed-Price **Award Date:** November 15, 2023

Latest Modification Date: - **Definitization Date:** -

Latest Modification No.: - **Work Start Date:** November 15, 2023

Technical Data Rights: Government Purpose License 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
150.8	150.8	150.8	150.8	150.8	150.8	-	125	-

Work Completed (%): -
Cost Variance (TY\$M): 0.0
Schedule Variance (TY\$M): 0.0

Factors Contributing to Cost Variance and Projected Effects on Program Costs

No EVM reported. FFP contract type.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

No EVM reported. FFP contract type.

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

	Original LRIP Determination	Current LRIP Determination
Total LRIP Quantity	37	178
Date	8/25/2015	9/15/2018
Reference	Milestone B ADM	Milestone C ADM
LRIP Period	FY 2015 - 2015	FY 2018 - 2018
Total Procurement Quantity	1,124	2,036
LRIP Percentage of Total	3.3%	8.7%

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

None

LRIP Notes

None

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

	Total Estimate	Actual to Date	Actual, Percent Complete
Years Appropriated	43	15	34.9%
Appropriations (TY, \$M)	6,599.2	2,060.1	31.2%
Expenditures (TY, \$M)	6,599.2	2,060.1	31.2%

(U) End Items Delivered

	Total Required	Planned to Date	Actual to Date	Actual, Percent Complete
Development	48			
CIRCM		48	48	
Procurement	1,988			
CIRCM		419	419	
Total	2,036	467	467	22.9%

Notes

None

(U) International Program Aspects

General Memo

There are international requests for CIRCM, and pricing details are being developed, but there are no active FMS cases currently.

Exportability and Business Issues

CIRCM was approved for export by the Tri-Service Committee on December 9, 2021. The Defense Systems Steering Committee provisos memo dictate the requirements and process by which CIRCM can be potentially exported and sold via Foreign Military Sales (FMS). CIRCM is currently working on an export design and is coordinating with the Technology Security & Foreign Disclosure Processes for release. There are active FMS requests for CIRCM in the system.

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

Program Protection: Technology Security and Foreign Disclosure Issues

There are no known negative impacts on Supply Chain Assurance Information Assurance, Anti-Tamper, or the Analysis of Critical Program Information as a result of potential Foreign Military Sales (FMS) cases. The CIRCM Program Protection Plan and Anti-Tamper Plan include Critical Program Information (CPI) protections to ensure minimum impact to those areas. Horizontal protection for CPI and other exportability concerns have been addressed during the Tri-Service Low Observable/Counter Low Observable approval process.

Exportability design efforts are still in development so the final cost to include non-recurring engineering (NRE) costs are not known at this time. The team is working to find a way to share the NRE with the first FMS customers. FMS of CIRCM will provide increased opportunities for interoperability with U.S. forces and will also decrease the unit cost of the system due to the additional quantities purchased.

(U) Agreements

No International Agreements have been defined for CIRCM



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Modernized Selected Acquisition Report Supplement

Common Infrared Countermeasure (CIRCM)

FY 2025 President's Budget
Effective: 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

Common Infrared Countermeasure

Short Name

CIRCM

PNO

446

Lead Component

Army

AAF Pathway

MCA

Acquisition Type

MDAP

Acquired Systems

CIRCM

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

Common Infrared Countermeasure

Major Software Efforts

Title	Status	Fielding Date	Description
No data for 2023 MSAR			

Major Engineering Changes

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

Funding Sources (Acquisition)

Acquisition Funding Notes

CIRCM POR and QRC fall under this line through FY24.

Common Infrared Countermeasure

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
Procurement	2031A	04	5399AZ3537 - Common Infrared Countermeasures (CIRCM)	0210108A	-		
RDT&E	2040A	05	0605035A - Common Infrared Countermeasures (CIRCM)	0605035A	EB4 - CIRCM		

Funding Sources (Operating and Support)

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

Operating and Support Funding Notes

CIRCM will begin POMing for OMA in POM 26.

Common Infrared Countermeasure

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
O&M	2020A	01	116 - Aviation Assets	0202141A	-		

Acquisition Estimate and Quantity Summary

Common Infrared Countermeasure

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

Acquisition Estimates

Category	PB 2025	TY (\$M)	Current Base Year	Original Base Year	Report Fiscal Year
			CY2018 (\$M)	CY2015 (\$M)	CY2024 (\$M)
RDT&E		1,054.4	949.6	902.8	1,159.3
Procurement		5,512.4	3,967.6	3,772.0	4,843.9
MILCON		-	-	-	-
O&M		32.4	24.3	23.1	29.6
Total Acquisition		6,599.2	4,941.5	4,697.8	6,032.8
PAUC		3.241	2.427	2.307	2.963
APUC		2.773	1.996	1.897	2.437

Acquisition End-Item Quantities

System	PB 2025	Development	Procurement
CIRCM		48	1,988
Total		48	1,988

Unit Description

The B-Kit is the unit used in the Acquisition End-Item Quantities table and unit cost calculation. The B-Kit consists of 1 System Processing Unit (SPU), 2 Pointer Trackers (PT), and 2 Lasers.

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

Appropriation	Prior	2024	2025	2026	2027	2028	2029	To Complete	Total
RDT&E	704.4	13.6	12.9	11.6	11.8	12.1	13.1	274.8	1,054.4
Procurement	1,061.6	271.7	278.3	275.7	287.6	268.4	263.1	2,806.1	5,512.4
MILCON	-	-	-	-	-	-	-	-	-
O&M	6.9	1.9	2.0	2.0	2.1	2.1	2.2	13.2	32.4
PB 2025 Total	1,772.9	287.2	293.2	289.3	301.5	282.7	278.3	3,094.1	6,599.2

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Common Infrared Countermeasure

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

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 CY2018 (\$M)
Total		1,054.4	1,054.4	-	949.6
2010		25.485	25.5	0.894895	28.5
2011		4.625	4.6	0.912488	5.1
2012		101.883	101.9	0.926865	109.9
2013		40.169	40.2	0.942625	42.6
2014		92.474	92.5	0.960784	96.2
2015		101.313	101.3	0.976915	103.7
2016		74.496	74.5	0.987294	75.5
2017		79.778	79.8	1.008309	79.1
2018		76.206	76.2	1.026556	74.2
2019		29.318	29.3	1.043427	28.1
2020		22.226	22.2	1.077163	20.6
2021		27.470	27.5	1.122483	24.5
2022		15.983	16.0	1.174251	13.6
2023		13.023	13.0	1.220699	10.7
2024		13.551	13.6	1.249612	10.8
2025		12.924	12.9	1.276333	10.1
2026		11.606	11.6	1.303136	8.9
2027		11.843	11.8	1.330502	8.9
2028		12.089	12.1	1.358443	8.9
2029		13.090	13.1	1.386970	9.4
2030		51.451	51.5	1.416096	36.3
2031		60.347	60.3	1.445834	41.7
2032		53.920	53.9	1.476197	36.5
2033		20.611	20.6	1.507197	13.7
2034		19.155	19.2	1.538848	12.4
2035		16.576	16.6	1.571164	10.6
2036		3.549	3.5	1.604158	2.2
2037		3.624	3.6	1.637846	2.2
2038		3.700	3.7	1.672241	2.2
2039		3.777	3.8	1.707358	2.2
2040		3.857	3.9	1.743212	2.2
2041		3.938	3.9	1.779820	2.2
2042		4.020	4.0	1.817196	2.2
2043		4.105	4.1	1.855357	2.2
2044		4.191	4.2	1.894319	2.2
2045		4.279	4.3	1.934100	2.2
2046		4.369	4.4	1.974716	2.2

Common Infrared Countermeasure

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

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 CY2018 (\$M)
2047		4.461	4.5	2.016185	2.2
2048		1.602	1.6	2.058525	0.8
2049		1.636	1.6	2.101754	0.8
2050		1.670	1.7	2.145891	0.8

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Common Infrared Countermeasure

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

2031A - Aircraft 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 CY2018 (\$M)
Total	5,512.4	-	-	-	-	-	5,512.4	-	3,967.6
2010							-	0.902287	-
2011							-	0.918815	-
2012							-	0.934370	-
2013							-	0.950986	-
2014							-	0.965379	-
2015							-	0.980584	-
2016							-	0.994672	-
2017	93.963						94.0	1.014798	92.6
2018	73.237						73.2	1.037536	70.6
2019	47.361						47.4	1.070753	44.2
2020	164.021						164.0	1.114670	147.1
2021	234.117						234.1	1.165555	200.9
2022	196.752						196.8	1.210024	162.6
2023	252.117						252.1	1.242085	203.0
2024	271.708						271.7	1.269513	214.0
2025	278.286						278.3	1.296318	214.7
2026	275.661						275.7	1.323540	208.3
2027	287.580						287.6	1.351335	212.8
2028	268.444						268.4	1.379713	194.6
2029	263.065						263.1	1.408687	186.7
2030	330.021						330.0	1.438269	229.5
2031	347.834						347.8	1.468473	236.9
2032	360.059						360.1	1.499311	240.1
2033	361.251						361.3	1.530796	236.0
2034	369.816						369.8	1.562943	236.6
2035	372.054						372.1	1.595765	233.2
2036	362.075						362.1	1.629276	222.2
2037	260.880						260.9	1.663491	156.8
2038	13.680						13.7	1.698424	8.1
2039	15.184						15.2	1.734091	8.8
2040	10.967						11.0	1.770507	6.2
2041	2.268						2.3	1.807687	1.3

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Common Infrared Countermeasure

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 CY2018 (\$M)
Total		32.4	32.4	-	24.3
2010			-	0.891886	-
2011			-	0.911258	-
2012			-	0.924283	-
2013			-	0.937047	-
2014			-	0.951832	-
2015			-	0.961341	-
2016			-	0.978544	-
2017			-	0.995022	-
2018			-	1.014969	-
2019		0.748	0.7	1.038060	0.7
2020		0.792	0.8	1.066488	0.7
2021		1.721	1.7	1.118657	1.5
2022		1.760	1.8	1.174074	1.5
2023		1.834	1.8	1.216349	1.5
2024		1.930	1.9	1.245055	1.6
2025		1.987	2.0	1.271641	1.6
2026		2.030	2.0	1.298345	1.6
2027		2.073	2.1	1.325611	1.6
2028		2.117	2.1	1.353448	1.6
2029		2.163	2.2	1.381871	1.6
2030		2.209	2.2	1.410890	1.6
2031		2.256	2.3	1.440519	1.6
2032		2.304	2.3	1.470770	1.6
2033		2.353	2.4	1.501656	1.6
2034		1.713	1.7	1.533191	1.1
2035		1.167	1.2	1.565388	0.7
2036		0.596	0.6	1.598261	0.4
2037		0.608	0.6	1.631824	0.4

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

Common Infrared Countermeasure

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

2040A - Research, Development, Test & Eval, Army				
fiscal year	CIRCM			Total
Total	48			48
Undistributed				-
2012	14			14
2013				-
2014				-
2015	21			21
2016				-
2017				-
2018	13			13

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

Common Infrared Countermeasure

2031A - Aircraft Procurement, Army				
fiscal year	CIRCM			Total
Total	1,988			1,988
Undistributed				-
2012				-
2013				-
2014				-
2015				-
2016				-
2017				-
2018	77			77
2019	87			87
2020	101			101
2021	120			120
2022	110			110
2023	125			125
2024	125			125
2025	100			100
2026	100			100
2027	100			100
2028	100			100
2029	100			100
2030	100			100
2031	100			100
2032	100			100
2033	100			100
2034	100			100
2035	100			100
2036	100			100
2037	43			43

Nuclear Costs

Common Infrared Countermeasure

Program's Use of Department of Energy Resources

No data for 2023 MSAR

Operational Fielding Plan

Common Infrared Countermeasure

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

System: CIRCUM

Fielding and Inventory Notes

CIRCUM falls under a central management model like other ASE systems meaning it is fielded based on G-3/5/7 requirements. Permanent fieldings will be based on G-3/5/7 direction. CIRCUM issues all new production systems first throughout the year. Operational systems are recovered after deployment. Any recovered systems from deployers are reissued as needed.

CIRCUM Fielding Plan and Inventory

fiscal year	Store	Field	Expend/Loss	Decommission	Inventory
2023					419
2024		130			549
2025		122			671
2026		132			803
2027		100			903
2028		100			1,003
2029		100			1,103

O&S Independent Cost Estimate

Common Infrared Countermeasure

Independent and Current Cost Estimate Comparison

Category	CY2018 (\$M)	Independent Cost Estimate 7/13/2023	Current Estimate 12/1/2023	Variance with ICE (%)
Unit-Level Manpower				-
Unit Operations			1.5	-
Maintenance			380.8	-
Sustaining Support			210.9	-
Continued System Improvements			138.5	-
Other			4.1	-
Total O&S		-	735.8	-

Independent Cost Estimate Source

Event: FRP
Type: Independent Cost Estimate
Approved by: DASA-CE, July 13, 2023
Note: Annual ICE Estimates not available

Current Cost Estimate Source

Type: Program Office Estimate
Approved by: PEO, December 1, 2023
Note: Annual O&S Estimates not available

Cost Estimate Variance Explanation

Annual Operating and Support Estimates by Cost Element

Common Infrared Countermeasure

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

System: CIRCM

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 CY2018 (\$M)
Total	-	-	-	-	-	-	-