

UNCLASSIFIED

CLEARED
For Open Publication

By kempr on Jul 08, 2024

Department of Defense
OFFICE OF PREPUBLICATION AND SECURITY REVIEW



Modernized Selected Acquisition Report (MSAR) HH-60W Jolly Green II (HH-60W)

FY 2025 President's Budget

Effective: December 31, 2023

Defense Acquisition Visibility Environment

UNCLASSIFIED

Table of Contents

Common DoD Abbreviations	3
Program Description	5
Responsible Office	7
Executive Summary	8
Schedule	11
Performance	12
Acquisition Budget Estimate	15
Unit Costs	17
Life-Cycle Costs	19
Technologies and Systems Engineering	22
Performing Activities and Contracts	23
Production	25
Deliveries and Expenditures	26
International Program Aspects	27

(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 HH-60W Jolly Green II	Short Name HH-60W
PNO 479	Milestone Decision Authority Component Acquisition Executive
Lead Component Department of the Air Force	Program Executive Office ISR/SOF Directorate (AFPEO/ISR&SOF)
Joint Program No	Acquisition Type Major Defense Acquisition Program
Adaptive Acquisition Pathway Major Capability Acquisition	Acquired Systems HH-60W
Acquisition Category IC	
Acquisition Status Active Acquisition	

Mission

The HH-60W system will provide Personnel Recovery (PR) forces with a vertical takeoff and landing aircraft that is quickly deployable and capable of main base and austere location operations for worldwide PR missions. HH-60W system activities may be required during any phase of a service/joint/coalition operation, across the full range of military operations, in any land or sea location, within the areas covered by the relevant defense planning scenarios. The United States Air Force (USAF) has 12 Core Functions that address its unique capabilities in support of the Joint Functional Capabilities (JFC) across the full spectrum of political and military operations in all environments. The USAF has demonstrated its commitment to the Joint Force by making PR one of the 12 USAF Core Functions. The Air Force recognizes the inherent interdependence of PR, although established as an individual Core Function, with the other Core Functions as well as with the JFCs.

The HH-60W shall be capable of employment day or night, in adverse weather, and in a variety of threat spectrums from terrorist attacks to chemical, biological, radiological, and nuclear threats. A single pilot must be able to fly and operate all electronic/sensor weapons systems including countermeasures, leaving the second pilot to navigate, communicate, and manage mission execution. Onboard defensive capabilities will permit the HH-60W system to operate in an increased threat environment. An in-flight air refueling capability will provide an airborne alert capability and extend its combat mission range. The HH-60W system may conduct combat search and rescue airborne mission commander duties. The aircraft will be self-supporting to the maximum extent practical.

The HH-60W system may also conduct other collateral missions inherent in their capabilities to conduct PR, such as nonconventional assisted recovery, national emergency operations, civil search and rescue, international aid, emergency aero medical evacuation, disaster and humanitarian relief, counter drug activities, support for National Aeronautics and Space Administration flight operations, and insertion/extraction of combat forces.

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

ISR/SOF Directorate (AFPEO/ISR&SOF)

Col Joshua P. Williams

joshua.williams.1@us.af.mil (primary)

(719) 556-5600 (commercial)

Program Manager

Combat Rescue Helicopter (CRH)

Tracy L. Patrick

tracy.patrick@us.af.mil (primary)

(937) 713-0392 (commercial)

(U) Executive Summary

Program Highlights Since Last Report

Accomplishments

The HH-60W Program has entered FRP. The FRP ADM was signed by the MDA on April 27, 2023, approving the Program to enter FRP and award Lot 5 purchase of 20 HH-60W.

Initial Operational Test and Evaluation (IOT&E) was conducted April 2022 to October 2022. During IOT&E shortfalls were observed requiring Follow-on Test and Evaluation (FOT&E). Air Force Operational Test and Evaluation (AFOTEC) approved the FOT&E plan May 19, 2023. Certification to enter Formal FOT&E was received June 9, 2023. FOT&E commenced on June 27, 2023, and is estimated to complete no later than 4th Quarter of FY 2024. The HH-60W is fully meeting its real-world taskings despite the shortfalls observed during IOT&E.

The Helicopter Program Office reached an agreement with Lockheed Martin Rotary Missions System (LM RMS) on a capability-based approach for Technical Data Package (TDP) deliveries. A contract modification was signed on December 1, 2023, and LM RMS hand delivered a hard drive with approximately 97% of the total TDP Package, to include aircraft make data, artifacts for the Systems Integration Laboratory (SIL), and Training Systems. Delivery of TDP increases the United States Air Force's (USAF) ability to compete future HH-60W upgrades and will enable long term organic sustainment of the weapon system.

The USAF and LM RMS have reached a bilateral agreement for the HH-60W Production Lots 3-5 effort, encompassing 53 aircraft, associated training systems, and field support. This agreement definitizes the price for three aircraft lots currently being executed on an Unpriced Change Order. Contract awarded on February 29, 2024.

The FY 2023 Program of Record is 85 air vehicles. The Program converted a nonflying training asset to flying air vehicle, which increases the number to 86. The FY 2024 budget added 10 aircraft, which increased the number to 96. No additional funds were provided to procure spares for these aircraft.

Significant Issues:

Production of Lot 3 aircraft is behind schedule. To date, 12 aircraft have not met their contract dates, ranging from May 20, 2023, to December 31, 2023 (W33-W44).

Delays are attributed to contractual issues and parts shortages. An agreement was reached with LM-RMS pertaining to the contractual issues for aircraft delays. A variety of parts from suppliers delivered late to need impacted production timelines in the latter half of Calendar Year 2023; the Air Force expects this pattern to continue into Calendar Year 2024. LM RMS continues to work with their sub-tier manufacturers to expedite parts receipt. The Contractor initiated working Saturdays to accelerate the assembly process.

Late aircraft deliveries have exacerbated aircraft availability issues already strained by product support issues.

Defense Cost and Resource Center Cost and Software Data Reporting Compliance Rating: Yellow. The following CSDR deliverables is between 3 and 6 months overdue: 1 software report, 1 flex file, 1 technical data report.

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

(U) History of Significant Developments Since Program Inception

Date	Description
January 2013	The Combat Rescue Helicopter (CRH) RFP was released on October 19, 2012. Proposals received January 3, 2013.
March 2014	On March 4, 2014, SECAF directed the CRH program to proceed to Milestone B and Contract Award.
June 2014	Contract awarded to Sikorsky Aircraft Corporation (SAC) on June 26, 2014.
June 2014	On June 18, 2014, a successful CRH Milestone B DAB was held with the Under Secretary of Defense (Acquisition, Technology and Logistics).
July 2014	Post Award Conference conducted.
August 2014	A successful joint Sikorsky/USAF CRH Program Start-up Workshop was held the week of August 25, 2014 at the Sikorsky Stratford, Connecticut facility.
September 2014	Organizational change request made.
September 2014	The CRH Configuration Steering Board was held on September 12, 2014. No changes were identified to the CRH baseline.
October 2014	Quarterly working groups initiated.
October 2014	Live Fire Test & Evaluation conducted.
October 2014	Integrated Baseline Review (IBR) held.
October 2014	Risk Workshop conducted.
October 2014	Training planning team convened.
October 2014	Joint Integration Working Group conducted.
December 2014	IBR Readiness Review conducted.
April 2016	Air Vehicle Preliminary Design Review (PDR) conducted.
June 2016	Training Systems Preliminary Design Review (PDR) conducted.
May 2017	Air Vehicle Critical Design Review (CDR) held on May 1-5, 2017.
September 2017	Training System CDR held on September 8-21, 2017.
October 2017	Business Case Analysis Approved.
October 2017	Delta Training Devices Fair Opportunity Proposal Request released.
May 2018	Block 1 Study kickoff meeting with SAC was held on May 18, 2018.
November 2018	EMD 1 test aircraft was shipped to the West Palm Beach Sikorsky facility on November 12, 2018.
November 2018	Air Vehicle Test Readiness Review held on October 10-12, 2018.
May 2019	HH-60W First Flight (EMD 2) was completed.
May 2019	EMD 1 First Flight was completed on May 23, 2019.
September 2019	HH-60W "Jolly Green II" Naming Memo signed.

Date	Description
September 2019	Milestone C approved and LRIP Awarded.
October 2019	CRH Roll-out Ceremony held.
October 2020	First A/C Delivery (W10)
October 2020	Live Fire Testing completed.
January 2021	EMD Aircraft #2 delivered.
April 2021	DT Complete
April 2021	Required Assets Available (RAA) Declared.
May 2021	Participated in Red Flag Exercise.
June 2021	First LRIP Delivered (W11).
December 2021	First HH-60W Operational Flight Trainer delivered.
December 2021	Weapon System Trainer #1 delivered.
April 2022	Initial Operational Test & Evaluation started.
June 2022	Ready For Training declared.
September 2022	HH-60W conducted first inaugural deployment.
September 2022	First non-combat save occurred on September 7, 2022.
October 2022	IOC Declared.
October 2022	IOT&E Completed.
December 2022	First Operational Rescue completed.
April 2023	FRP Declared.
September 2023	APB Change 1 Signed on September 8, 2023 was in support of HH-60W FRP Decision.
December 2023	Initial Technical Data Package delivery commenced.
February 2024	Lot 3-5 Production Contract was awarded on February 29, 2024.

(U) Schedule

(U) Schedule Events

Events		Production APB (Milestone) 9/24/2019 Objective	Production APB Change 2 (Current) 9/8/2023 Objective / Threshold		Current Estimate 12/31/2023	Actual
Milestone B	MS B	Jun 2014	Jun 2014	Jun 2014	-	18 Jun 2014
PDR	PDR	Apr 2016	Apr 2016	Apr 2016	-	22 Apr 2016
CDR	CDR	May 2017	May 2017	May 2017	-	1 May 2017
DT&E Start	DT&E	Sept 2018	Sept 2018	Sept 2018	-	28 Sept 2018
Milestone C	MS C	Sept 2019	Sept 2019	Sept 2019	-	24 Sept 2019
RAA	IOC	Apr 2021	Apr 2021	Apr 2021	-	30 Apr 2021
FRP Decision	FRP Decision	May 2022	Sept 2023	Sept 2023	-	27 Apr 2023

Notes

None

Schedule Baseline Deviation Explanation

None

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

Event	Date	Description
Other	4/2/2024	This Program's Technology Security and Foreign Disclosure Issues 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 SAR be submitted without any designation relation to dissemination control.

(U) Performance

(U) Performance Attributes

System Training Process		KPP
Current Estimate 12/31/2023	Training systems shall provide an operational availability rate of 95% for 16 hours a day, 5 days a week and 50 weeks a year for the operating life.	
Demonstrated Performance 1/31/2023	Partially compliant as of 31 Jan 23. Training Interoperability KSA and Training Support KSA have not been met and in work (ECD FY24).	
Production APB Change 2 (Current) 9/8/2023	Objective	(Objective= Threshold) HH-60 Recap shall provide operations and maintenance training systems
	Threshold	HH-60 Recap shall provide operations and maintenance training systems
Production APB (Milestone) 9/24/2019	Objective	(Objective= Threshold) HH-60 Recap shall provide operations and maintenance training systems
Survivability		KPP
Current Estimate 12/31/2023	HH-60 Recap aircraft shall provide vulnerability reduction at least equal to existing HH-60G vulnerability reduction features - protection for the pilot, copilot and all flight critical components or subsystems against ground-fired 7.62 mm armor piercing projectiles at 100 meters.	
Demonstrated Performance -	HH-60 Recap aircraft shall provide vulnerability reduction at least equal to existing HH-60G vulnerability reduction features - protection for the pilot, copilot and all flight critical components or subsystems against ground-fired 7.62 mm armor piercing projectiles at 100 meters.	
Production APB Change 2 (Current) 9/8/2023	Objective	(Objective= Threshold) HH-60 Recap aircraft shall provide vulnerability reduction at least equal to existing HH-60G vulnerability reduction features - protection for the pilot, copilot and all flight critical components or subsystems against ground-fired 7.62 mm armor piercing projectiles at 100 meters.
	Threshold	HH-60 Recap aircraft shall provide vulnerability reduction at least equal to existing HH-60G vulnerability reduction features - protection for the pilot, copilot and all flight critical components or subsystems against ground-fired 7.62 mm armor piercing projectiles at 100 meters.
Production APB (Milestone) 9/24/2019	Objective	(Objective= Threshold) HH-60 Recap aircraft shall provide vulnerability reduction at least equal to existing HH-60G vulnerability reduction features - protection for the pilot, copilot and all flight critical components or subsystems against ground-fired 7.62 mm armor piercing projectiles at 100 meters.
Net Ready		KPP
Current Estimate	The capability, system, and/or service shall fully support	

12/31/2023		execution of joint critical operational activities and information exchanges identified in the DoD Enterprise Architecture and solution architectures based on integrated DoDAF content and shall satisfy the technical requirements for transition to Net-Centric military Operations. Issuance of an IATO or ATO by the DAA.
Demonstrated Performance 1/25/2023		Partially Compliant with Threshold. Issues related to Link-16 (ECD FY25; schedule driven by cert testing, not a design issue) and Common Interactive Broadcast (ECD FY26) in work.
Production APB Change 2 (Current)	Objective	Execution of all operational activities and information exchanges identified and information assurance requirements including availability, integrity, authentication, confidentiality, and non-repudiation, and issuance of an ATO by the DAA.
	9/8/2023	Threshold
Production APB (Milestone)	Objective	Execution of all operational activities and information exchanges identified and information assurance requirements including availability, integrity, authentication, confidentiality, and non-repudiation, and issuance of an ATO by the DAA.
9/24/2019		
Hover Performance		KPP
Current Estimate 12/31/2023		The HH-60W capability to hover at mid-mission gross weight at 4,199' PA, 35°C.
Demonstrated Performance -		The HH-60W capability to hover at mid-mission gross weight at 4,199 PA, 35°C.
Production APB Change 2 (Current)	Objective	A combat configured HH-60 Recap with SCL shall have an OGE hover capability at mid-mission gross weights at 6,000' PA, 35 deg C.
	9/8/2023	Threshold
Production APB (Milestone)	Objective	A combat configured HH-60 Recap with SCL shall have an OGE hover capability at mid-mission gross weights at 6,000' PA, 35degC.
9/24/2019		
Force Protection		KPP
Current Estimate 12/31/2023		Pilot and copilot seating will incorporate ballistic hardening to defeat 7.62 mm AP projectiles at 100 meters. The cabin walls around the primary cabin crew member positions and the entire cabin floor will have the capability to defeat 7.62 mm AP projectiles at 100 meters.
Demonstrated Performance -		Pilot and copilot seating will incorporate ballistic hardening to defeat 7.62 mm AP projectiles at 100 meters. The cabin walls around the primary cabin crew member positions and the entire cabin floor will have the

		capability to defeat 7.62 mm AP projectiles at 100 meters.
Production APB Change 2 (Current) 9/8/2023	Objective	Pilot and copilot seating to 14.5 mm AP projectiles at 500 meters. Walls around the primary cabin crew member positions and the entire cabin floor to 14.5 mm AP at 500 meters.
	Threshold	Pilot and copilot seating will incorporate ballistic hardening to defeat 7.62 mm AP projectiles at 100 meters. The cabin walls around the primary cabin crew member positions and the entire cabin floor will have the capability to defeat 7.62 mm AP projectiles at 100 meters.
Production APB (Milestone) 9/24/2019	Objective	Pilot and copilot seating to 14.5 mm AP projectiles at 500 meters. Walls around the primary cabin crew member positions and the entire cabin floor to 14.5 mm AP at 500 meters.
Sustainment (Material Availability)		KPP
Current Estimate 12/31/2023		As of January 31, 2024, the MC rate was 57.1 percent., tracking below the threshold requirement of 83 percent (ECD: 1st Quarter FY 2025).
Demonstrated Performance 1/31/2024		The MC rate was 67.40%
Production APB Change 2 (Current) 9/8/2023	Objective	(Objective= Threshold) MC rate of 83 percent at IOC
	Threshold	MC rate of 83 percent at IOC
Production APB (Milestone) 9/24/2019	Objective	(Objective= Threshold) MC rate of 83 percent at IOC

(U) Requirement Source:

Sponsor(s): United States Air Force

1. Capability Development Document, *Capability Development Document for United States Air Force Personnel Recovery HH-60 Recapitalization Aircraft Supplement*
Validated By: Joint Requirements Oversight Council, July 20, 2012
2. Capability Development Document, *Capability Development Document for United States Air Force Personnel Recovery HH-60 Recapitalization Aircraft*
Validated By: Joint Requirements Oversight Council, July 6, 2010

Notes

None

Performance Deviation Explanation

None

(U) Acquisition Budget Estimate

(U) Total Acquisition Estimates and Quantities

Category (\$M) Base Year: 2023	Production APB (Milestone) 9/24/2019 CY\$ obs Objective	Production APB Change 2 (Current) 9/8/2023 CY\$ obs Objective / Threshold		Current Estimate PB 2025 CY\$ obs / TY\$ obs	
RDT&E	2,211.9	2,717.2	2,988.9	2,374.8	2,019.9
Procurement	6,974.7	5,972.0	6,569.2	6,178.1	6,518.2
MILCON	68.8	135.3	148.8	57.9	57.1
O&M	0.0	-	-	-	-
Total Acquisition	9,255.4	8,824.5	-	8,610.8	8,595.3
Program Acquisition Unit Cost	81.906	103.818	114.199	89.695	89.534
Average Procurement Unit Cost	67.716	79.627	87.589	72.684	76.685
Program End-Item Quantity					
Development	10	10		11	
Procurement	103	75		85	
O&M-Acquired	-	-		0	

Budget Notes

None

Quantity Notes

The FY 2023 program of record is 85 air vehicles. The program has converted a nonflying training asset to a flying air vehicle, which increases the number to 86. Even though the quantity is 86 units, as reflected in the FY 2025 PB position, the cost data in the table above reflects the FY 2023 SCP which had its estimates built on a quantity of 85 units. The cost data, including PAUC and APUC, will be revised during the next POE scheduled for completion in 3rd Quarter FY 2024.

Cost Baseline Deviation Explanation

None

(U) Risk and Sensitivity Analysis

Current Procurement Estimate Risks (12/31/2023)	
1	There are no known risks with this program at this time.
Current Baseline Risks (9/8/2023)	
None	

Original Baseline Risks (6/18/2014)
None

(U) Unit Costs

(U) Current Estimate Compared with Current Baseline

Category (CY\$M) Base Year: 2023	Current Baseline 09/08/2023	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	8,824.5	8,610.8	
Program Quantity	85	96	
PAUC	103.818	89.695	-13.60%
Average Procurement Unit Cost			
Procurement Cost	5,972.0	6,178.1	
Procurement Quantity	75	85	
APUC	79.627	72.684	-8.72%

(U) Current Estimate Compared with Original Baseline

Category (CY\$M) Base Year: 2014	Original Baseline 06/18/2014	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	8,090.9	6,790.9	
Program Quantity	112	96	
PAUC	72.240	70.739	-2.08%
Average Procurement Unit Cost			
Procurement Cost	6,108.4	4,872.4	
Procurement Quantity	103	85	
APUC	59.305	57.322	-3.34%

The Current Estimate's constant-year dollars have been converted from Base Year 2023 to Base Year 2014 using the National Defense Budget Estimates for FY 2024 (Green Book).

(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: 2023	Production APB (Milestone) 9/24/2019 CY\$ obs Objective	Production APB Change 2 (Current) 9/8/2023 CY\$ obs Objective / Threshold		Current Estimate CY\$ obs / TY\$ obs	
Total O&S	26,512.7	24,426.7	26,869.4	24,426.7	33,531.1
Total Disposal	-	14.9	-	14.9	29.3

(U) Current Cost Estimate Sources

Operating and Support Cost

Type: Service Cost Position (SCP)

Approved by: FY 2025 PB and Program Manager, January 25, 2024

Disposal/Demilitarization Cost

Type: Service Cost Position (SCP)

Approved by: FY 2025 PB and Program Manager, January 25, 2024

Operating and Support Baseline Deviation Explanation

None

Cost Notes

Not Applicable

Sustainment Strategy

Not Applicable

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: 2023	Estimate	
Prior Estimate (12/31/2022)	17,750.9	
Current Estimate	24,426.7	
Category	Variance	Explanation

(CY\$M) Base Year: 2023		Estimate	
Unit-Level Manpower		700.5	\$140M Air Force Total Ownership Cost. (AFTOC) actuals added for Primary Aircraft Authorized (PAA) Update 59 to 75.
Unit Operations		363.5	AFTOC Actuals added, PAA Update 59 to 75.
Maintenance		4,753.3	AFTOC Actuals added, PAA Update 59 to 75.
Sustaining Support		1,538.3	AFTOC Actuals added, small labor rate adjustment.
Continuing System Improvements		-679.7	AFTOC actuals added.
Other		0.0	
Not Categorized		0.0	

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

(CY\$M) Base Year: 2023							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
HH-60W	8,449.1	2,075.0	10,061.6	3,308.6	532.4	0.0	24,426.7
Program	8,449.1	2,075.0	10,061.6	3,308.6	532.4	0.0	24,426.7

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

(CY\$M) Base Year: 2023							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
HH-60W	4.2	1.0	5.0	1.6	0.3	0.0	12.1

(U) Operating and Support Cost Estimate Assumptions

System	Quantity to Sustain	Unit Expected Service Life (Years)	Unit of Measure	Fiscal Years Operational
HH-60W	75	27.0	Aircraft	2021 - 2053

Additional O&S Estimate Assumptions

Annual Flight Hours are 22,500 per fleet. Estimated Maintenance Cycles: Airframe every 8000 hours. Engine overhaul every 720 hours.

Antecedent Estimate Assumptions

Not Applicable

O&S Annual Cost Calculation Memo

Divide each Category element total by the total number of HH-60W aircraft being sustained (75), then further divide by the service life (27 years). The result is the Annual O&S cost by Category.

(U) Technologies and Systems Engineering

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

Event	Date	Description
Other	4/2/2024	This Program's Technology Security and Foreign Disclosure Issues 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 SAR be submitted without any designation relation to dissemination control.

(U) Performing Activities and Contracts

(U) External Government Activities

None

(U) Contracts and Efforts

Contract Title	Contract Number / Effort	Contractor	Phase
Combat Rescue Helicopter - LRIP	FA862914C2403	SIKORSKY AIRCRAFT CORPORATION	Production

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

Contract Number:	FA862914C2403	Order Number:	-
Contract Title:	Combat Rescue Helicopter - LRIP	Strategy:	FAR 15: Negotiated Contracts
CAGE:	78286 - SIKORSKY AIRCRAFT CORPORATION	Contracting Office:	DOD - Department of Defense
City, State/Province:	STRATFORD, CT		
Effort Number:	-	Supported Phase:	Production
Type:	Fixed-Price Incentive (Firm Target)	Award Date:	June 26, 2014
Latest Modification Date:	-	Definitization Date:	June 26, 2014
Latest Modification No.:	P00287	Work Start Date:	June 26, 2014
Technical Data Rights:	-		
Notes:	<p>Target Price Change Explanation The difference between the Initial Target Price and the Current Target Price is the contract award of Production Aircraft Lots 3, 4 and 5.</p> <p>General Variance Explanation Not Applicable</p>		

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
1,259.9	510.9	5,377.4	8,687.3	1,202.0	1,276.3	113	96	45

Work Completed (%):	90.54%
Cost Variance (TY\$M):	+75.0
Schedule Variance (TY\$M):	-26.1

Factors Contributing to Cost Variance and Projected Effects on Program Costs

LRIP EVM as of September 2023 is 90.0% complete. Cumulative CPI was 1.08 and the positive cumulative CV was \$74.900M. The primary favorable drivers of the variance are System Engineering and Integration as well as A/V Sustaining Engineering.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

Cumulative SPI was 97.6% and the negative cumulative SV was (\$26.092M). The primary drivers of the unfavorable variance are Initial Spares and Production Line Personnel COVID impacts.

(U) Production

(U) Low-Rate Initial Production

	Original LRIP Determination	Current LRIP Determination
Total LRIP Quantity	18	56
Date	6/18/2014	9/24/2019
Reference	Milestone B Acquisition Decision Memorandum (ADM)	Milestone C Acquisition Decision Memorandum (ADM)
LRIP Period	FY 2021 - 2022	FY 2023 - 2026
Total Procurement Quantity	85	85
LRIP Percentage of Total	21.2%	65.9%

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

As a result of the Milestone C SCP, the acquisition strategy was modified to incorporate up to four LRIP lots. The change minimized production gaps and preserved future funding execution plans.

LRIP Notes

None

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

	Total Estimate	Actual to Date	Actual, Percent Complete
Years Appropriated	-	-	-
Appropriations (TY, \$M)	8,595.3	8,595.3	100.0%
Expenditures (TY, \$M)	8,595.3	5,634.0	65.5%

(U) End Items Delivered

	Total Required	Planned to Date	Actual to Date	Actual, Percent Complete
Development	11			
HH-60W		10	10	
Procurement	85			
HH-60W		39	35	
Total	96	49	45	46.9%

Notes

Acute part shortages continued to drive delays to Lot 3 aircraft production and delivery. A variety of parts from sub-tier suppliers have impacted production timelines in the latter half of 2023, continuing through March 2024; this pattern is anticipated to continue through the summer of 2024.

(U) International Program Aspects

General Memo

Multiple foreign allies have expressed interest in the HH-60W. The Helicopter Program Office (HPO) has worked on a releasable configuration for Romania and Norway. Romania provided Price and Availability (P&A) in October 2023. Norway P&A in December 2023. Saudi Arabia and HPO FMS New Business Team conducted Teleconference was February 1, 2024, to further develop LOR requirements. Saudi Arabia provided an LOR for P&A in September 2023.

Exportability and Business Issues

None

Is design for international exportability planned?	Yes	Industry/Partner Exportability Cost-Sharing?	No
--	-----	--	----

Program Protection: Technology Security and Foreign Disclosure Issues

This Program's Technology Security and Foreign Disclosure Issues 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 SAR be submitted without any designation relation to dissemination control.

(U) Agreements

No International Agreements have been defined for HH-60W



UNCLASSIFIED

**Modernized
Selected Acquisition Report
Supplement**

**HH-60W Jolly Green II
(HH-60W)**

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

UNCLASSIFIED

MSAR Supplement Sections

Program Description

Program Use of the Adaptive Acquisition Framework

Technologies and Systems Engineering

Funding Sources (Acquisition)

Funding Sources (Operating and Support)

Acquisition Estimate and Quantity Summary

Annual Acquisition Estimates by Appropriation Account

Acquired System Annual End-Item Quantities by Appropriation Account

Nuclear Costs

Operational Fielding Plan

O&S Independent Cost Estimate

Annual Operating and Support Estimates by Cost Element

Program Description

Full Name

HH-60W Jolly Green II

Short Name

HH-60W

PNO

479

Lead Component

Air Force

AAF Pathway

MCA

Acquisition Type

MDAP

Acquired Systems

HH-60W

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

HH-60W Jolly Green II

Major Software Efforts

Title	Status	Fielding Date	Description
Capabilities Upgrade DO1	Development	Apr 2026	Software Modernization

Major Engineering Changes

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

Funding Sources (Acquisition)

Acquisition Funding Notes

HH-60W Jolly Green II

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
RDT&E	3600F	05	0605229F - HH-60W	0605229F	654364 - Combat Rescue Helicopter (CRH)		
Procurement	3010F	04	H060WH -	0207229F	-		
Procurement	3010F	05	H060WM - Combat Rescue Helicopter Modification	0207229F	-		
Procurement	3010F	06	000999 - Initial Spares/Repair Parts	0207229F	-		

Funding Sources (Operating and Support)

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

Operating and Support Funding Notes

HH-60W Jolly Green II

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
O&M	3400F	01	011C - Combat Enhancement Forces	0207229F	-		

Acquisition Estimate and Quantity Summary

HH-60W Jolly Green II

Acquisition Estimates

Category	PB 2025	TY (\$M)	Current Base Year	Original Base Year	Report Fiscal Year
			CY2023 (\$M)	CY2014 (\$M)	CY2024 (\$M)
RDT&E		2,019.9	2,374.8	1,872.9	2,431.7
Procurement		6,518.2	6,178.1	4,872.4	6,326.1
MILCON		57.1	57.9	45.6	59.2
O&M		-	-	-	-
Total Acquisition		8,595.3	8,610.8	6,790.9	8,817.1
PAUC		89.534	89.695	70.739	91.844
APUC		76.685	72.684	57.322	74.425

Acquisition End-Item Quantities

System	PB 2025	Development	Procurement
HH-60W		11	85
Total		11	85

Unit Description

The FY 2023 program of record is 85 air vehicles. The program has converted a nonflying training asset to a flying air vehicle, which increases the number to 86. Even though the quantity is 86 units, as reflected in the FY 2025 PB position, the cost data in the table above reflects the FY 2023 SCP which had its estimates built on a quantity of 85 units. The cost data, including PAUC and APUC, will be revised during the next POE scheduled for completion in 3rd Quarter FY 2024.

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

Appropriation	Prior	2024	2025	2026	2027	2028	2029	To Complete	Total
RDT&E	1,978.9	41.0	-	-	-	-	-	-	2,019.9
Procurement	4,323.4	597.4	193.5	125.5	76.4	79.2	81.2	1,041.7	6,518.2
MILCON	57.1	-	-	-	-	-	-	-	57.1
O&M	-	-	-	-	-	-	-	-	-
PB 2025 Total	6,359.5	638.4	193.5	125.5	76.4	79.2	81.2	1,041.7	8,595.3

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

HH-60W Jolly Green II

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

3600F - Research, Development, Test & Eval, AF					
fiscal year		Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2023 (\$M)
Total		2,019.9	2,019.9	-	2,374.8
2010			-	0.746960	-
2011			-	0.761079	-
2012		6.189	6.2	0.774339	8.0
2013		32.787	32.8	0.787426	41.6
2014		333.558	333.6	0.798404	417.8
2015		100.000	100.0	0.806424	124.0
2016		150.341	150.3	0.818756	183.6
2017		263.327	263.3	0.835889	315.0
2018		342.018	342.0	0.853461	400.7
2019		430.395	430.4	0.869327	495.1
2020		221.457	221.5	0.891686	248.4
2021		32.183	32.2	0.933579	34.5
2022		38.963	39.0	0.983662	39.6
2023		27.722	27.7	1.018624	27.2
2024		40.976	41.0	1.044569	39.2

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

HH-60W Jolly Green II

Source for TY\$-CY\$ Conversion:

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

3010F - Aircraft Procurement, Air Force									
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 CY2023 (\$M)
Total	6,518.2	-	-	-	-	-	6,518.2	-	6,178.1
2010							-	0.763872	-
2011							-	0.776124	-
2012							-	0.787917	-
2013							-	0.803938	-
2014							-	0.815647	-
2015							-	0.826999	-
2016							-	0.843231	-
2017							-	0.860879	-
2018							-	0.885975	-
2019	608.498						608.5	0.916713	663.8
2020	767.335						767.3	0.955476	803.1
2021	877.688						877.7	0.996363	880.9
2022	750.881						750.9	1.029229	729.6
2023	1,319.006						1,319.0	1.054621	1,250.7
2024	597.408						597.4	1.075876	555.3
2025	193.455						193.5	1.098582	176.1
2026	125.462						125.5	1.121652	111.9
2027	76.404						76.4	1.145206	66.7
2028	79.239						79.2	1.169256	67.8
2029	81.150						81.2	1.193810	68.0
2030	166.300						166.3	1.218880	136.4
2031	170.800						170.8	1.244477	137.2
2032	168.500						168.5	1.270611	132.6
2033	171.500						171.5	1.297294	132.2
2034	123.600						123.6	1.324537	93.3
2035	62.500						62.5	1.352352	46.2
2036	60.300						60.3	1.380751	43.7
2037	61.400						61.4	1.409747	43.6
2038	35.900						35.9	1.439352	24.9
2039	20.900						20.9	1.469578	14.2

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

HH-60W Jolly Green II

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

3300F - Military Construction, Air Force					
fiscal year		Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2023 (\$M)
Total		57.1	57.1	-	57.9
2010			-	0.759889	-
2011			-	0.775541	-
2012			-	0.789488	-
2013			-	0.808080	-
2014			-	0.820516	-
2015			-	0.835709	-
2016			-	0.854044	-
2017		7.300	7.3	0.873897	8.4
2018			-	0.894887	-
2019		5.900	5.9	0.922475	6.4
2020		15.500	15.5	0.962696	16.1
2021		4.049	4.0	1.005184	4.0
2022			-	1.037145	-
2023		24.395	24.4	1.061720	23.0

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

HH-60W Jolly Green II

3600F - Research, Development, Test & Eval, AF				
fiscal year	HH-60W			Total
Total	11			11
Undistributed				-
2015				-
2016	3			3
2017	3			3
2018	3			3
2019	2			2

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

HH-60W Jolly Green II

3010F - Aircraft Procurement, Air Force				
fiscal year	HH-60W			Total
Total	85			85
Undistributed				-
2015				-
2016				-
2017				-
2018				-
2019	10			10
2020	12			12
2021	19			19
2022	14			14
2023	20			20
2024	10			10

Nuclear Costs

HH-60W Jolly Green II

Program's Use of Department of Energy Resources

None

Operational Fielding Plan

HH-60W Jolly Green II

System: HH-60W

Fielding and Inventory Notes

This Program's Fielding and Inventory Notes 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 SAR be submitted without any designation relation to dissemination control.

HH-60W Fielding Plan and Inventory

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

O&S Independent Cost Estimate

HH-60W Jolly Green II

Independent and Current Cost Estimate Comparison

Category	CY2023 (\$M)	Independent Cost Estimate 4/11/2023	Current Estimate 4/11/2023	Variance with ICE (%)
Unit-Level Manpower		8,449.1	8,449.1	0%
Unit Operations		2,075.0	2,075.0	0%
Maintenance		10,061.6	10,061.6	0%
Sustaining Support		3,308.6	3,308.6	0%
Continued System Improvements		532.4	532.4	0%
Other				-
Total O&S		24,426.7	24,426.7	0%

Independent Cost Estimate Source

Event: Full Rate Production Decision

Type: Service Cost Position

Approved by: C. Grant Mc Vicker III - Deputy Assistant Secretary (Cost & Economics), April 11, 2023

Current Cost Estimate Source

Type: Service Cost Position

Approved by: C. Grant Mc Vicker III - Deputy Assistant Secretary (Cost & Economics), April 11, 2023

Cost Estimate Variance Explanation

Annual Operating and Support Estimates by Cost Element

HH-60W Jolly Green II

System: HH-60W

Source for TY-CY Conversion: PB25 2/27/24

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 CY2023 (\$M)
Total	8,449.1	2,075.0	10,061.6	3,308.6	532.4	-	24,426.7
2019					0.818		0.8
2020			0.332		1.653		2.0
2021	156.633	3.001	1.889	0.181	0.866		162.6
2022	152.732	7.856	7.976	0.356	4.536		173.5
2023	246.159	48.431	75.920	79.034	13.484		463.0
2024	258.640	54.948	123.669	88.632	15.161		541.0
2025	290.429	63.256	176.102	92.913	16.971		639.7
2026	291.586	71.253	299.040	119.177	16.658		797.7
2027	292.748	72.623	323.718	118.890	16.700		824.7
2028	293.916	72.633	329.717	118.949	17.755		833.0
2029	295.089	74.905	333.946	119.009	17.734		840.7
2030	296.268	74.964	342.613	119.069	22.112		855.0
2031	297.452	75.023	353.122	119.130	18.083		862.8
2032	298.642	75.082	364.460	119.190	18.107		875.5
2033	299.837	75.142	375.555	119.251	18.147		887.9
2034	301.037	75.202	387.408	119.312	18.177		901.1
2035	302.243	75.262	394.649	119.374	22.197		913.7
2036	303.455	75.322	402.134	119.436	18.228		918.6
2037	304.672	75.383	409.118	119.498	18.249		926.9
2038	305.895	75.443	415.196	119.560	18.280		934.4
2039	307.123	75.505	419.780	119.623	18.300		940.3
2040	308.357	75.566	425.145	119.686	22.331		951.1
2041	309.597	75.627	429.728	119.749	18.352		953.1
2042	310.842	75.689	435.093	119.813	18.383		959.8
2043	312.093	75.751	439.677	119.877	18.404		965.8
2044	313.350	75.813	445.042	119.941	18.436		972.6
2045	314.613	75.876	449.625	120.005	22.457		982.6
2046	315.881	75.939	454.208	117.167	18.478		981.7
2047	289.528	71.682	416.218	113.358	17.920		908.7
2048	253.679	66.874	370.856	107.612	17.164		816.2
2049	198.912	59.346	297.705	100.409	16.021		672.4
2050	130.015	50.170	205.667	95.140	18.575		499.6
2051	87.003	43.141	134.561	84.957	13.508		363.2

System: HH-60W

Source for TY-CY Conversion: PB25 2/27/24

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 CY2023 (\$M)
2052	10.634	32.286	21.767	40.257	0.197		105.1