Modernized Selected Acquisition Report (MSAR)

Air and Missile Defense Radar Family of Radars (AMDR FoR)

FY 2025 President's Budget

Effective: December 31, 2023

Defense Acquisition Visibility Environment

Table of Contents

(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
Air and Missile Defense Radar Family of Radars

PNO
384

Lead Component
Department of the Navy

Joint Program
No

Adaptive Acquisition Pathway
Major Capability Acquisition

Acquisition Category
IC

Acquisition Status
Active Acquisition

Short Name
AMDR FoR

Decision Authority
Component Acquisition Executive

Program Executive Office
PEO Integrated Warfare Systems

Supporting Components
Missile Defense Agency

International Partners
Australia

Acquisition Type
Major Defense Acquisition Program

Acquired Systems
AMDR FoR

Subprograms

Full Name	Short Name	Acquisition Status	In Report?	Acquired Systems
Air and Missile Defense Backfit - AN/SPY-6(V)4	AMDR Backfit - AN/SPY-6(V)4	Active Acquisition	Yes	AN/SPY-6(V)4
AN/SPY-6(V)1 Air and Missile Defense Radar	AMDR - AN/SPY-6(V)1	Active Acquisition	Yes	AN/SPY-6(V)1
AN/SPY-6(V)2 Enterprise Air Surveillance Radar	EASR Rotating Radar - AN/SPY-6(V)2	Active Acquisition	Yes	AN/SPY-6(V)2
AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face	EASR FF - AN/SPY-6(V)3	Active Acquisition	Yes	AN/SPY-6(V)3

Mission
Developed under the Air and Missile Defense Radar (AMDR) program, the AN/SPY-6(V)1 is the Navy's next generation radar system that will address Ballistic Missile Defense (BMD) and Air Defense (AD) capability gaps identified in the Maritime Air and Missile Defense of Joint Forces (MAMDJF) Initial Capabilities Document (ICD). AN/SPY-6(V)1 is an Integrated Air and Missile Defense (IAMD) radar providing sensitivity for long range detection and engagement of advanced threats. The AN/SPY-6(V)1 is currently planned to be deployed on the Arleigh Burke Class Guided Missile Destroyer Flight III with four arrays each populated with 37 Radar Modular Assemblies (RMAs) which achieves the Capability Production Document (CPD) threshold of SPY +16dB sensitivity with margin.

(U) Responsible Office

Program Executive Officer
PEO Integrated Warfare Systems
No Data

Program Manager
Air and Missile Defense Radar PMO
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(U) Executive Summary

Program Highlights Since Last Report

AN/SPY-6(V) is a family of radars (FoR) which are designed to be scalable and adaptable across multiple ship classes and mission requirements. The AN/SPY-6(V)1 is the Navy's next generation radar system that will address Ballistic Missile Defense (BMD) and Air Defense (AD) capability gaps identified in the Maritime Air and Missile Defense of Joint Forces (MAMDJF) Initial Capabilities Document (ICD). AN/SPY-6(V)1 has four 37 Radar Modular Assembly (RMA) arrays to provide Integrated Air and Missile Defense (IAMD) sensitivity for long range detection and engagement of advanced threats. AN/SPY-6(V)4 is a scaled (V)1 system (24 RMAs) currently planned to replace the AN/SPY-1 radar on existing DDG 51 FLT IIA ships to bring IAMD capabilities to the fleet. The AN/SPY-6(V)2 configuration is a single 9 RMA rotating array, and the AN/SPY-6(V)3 configuration is three fixed 9 RMA arrays. (V)2 and (V)3 are developed as one sensor in a new sensor suite that is designed to meet the performance needs contained in the Battlespace Awareness ICD. The specific system performance requirements are documented in the Enterprise Radar Suite Naval Capabilities Document (ERS NCD). AN/SPY-6(V)2 is planned to replace the AN/SPS-48 and AN/SPS-49 radars on large deck Amphibious hulls and Nimitz CVNs. The AN/SPY-6(V)3 replaces the AN/SPY-4 Volume Search Radar on FORD CVNs and is used as the primary self-defense radar for Constellation FFGs.

(U) History of Significant Developments Since Program Inception

Date	Description
April 2024	Completion of ship set 6 SPY-6 deliveries.
February 2024	DDG 125 participated in FTX-23 mission.
November 2023	Completion of ship set 7 SPY-6 deliveries.
September 2023	DDG 125 first successful SM-2 Live Fire Event
September 2023	DDG 125 completed sail away, commissioning, and transit to home port.
July 2023	Completion of ship set 5 SPY-6 deliveries.
June 2023	DDG 125 delivered to the fleet.
May 2023	DDG 125 builder's trials completed.
December 2022	DDG 125 underway for Alpha Trials, first time for AN/SPY-6(V)1 operations at-sea.
April 2022	Completion of ship set 4 SPY-6 deliveries.
March 2022	Awarded the Hardware Production and Sustainment contract.
March 2022	Completion of ship set 3 SPY-6 deliveries.
December 2021	Completion of the DDG 125 AEGIS Light-Off (ALO)
March 2021	Completion of ship set 2 SPY-6 deliveries.
October 2020	Completion of DDG 125 SPY-6 deliveries.
December 2019	Exercised contract options for two more Low Rate Initial Production units bringing the unit total to nine
March 2019	Exercised contract options for three more Low Rate Initial Production units bringing the unit total to seven.

Date	Description
January 2019	Vigilant Nemesis flight test
December 2018	Awarded Integration and Production Support contract to Raytheon
April 2018	Exercised contract option for a fourth Low Rate Initial Production unit
March 2018	Vigilant Janus flight test
December 2017	Combined Systems Engineering Technical Review (Transition Critical Design Review, System Verification Review/Functional Configuration Audit, and Production Readiness Review)
September 2017	Vigilant Talon flight test
July 2017	Vigilant Titan flight test
May 2017	Exercised contract options for first three Low Rate Initial Production units
April 2017	Milestone C Acquisition Decision Memorandum
March 2017	Vigilant Hunter flight test
December 2016	Exercised Long Lead Material contract option for first Low Rate Initial Production unit
September 2016	Start of Developmental Test 3 (DT-3)
April 2015	System Critical Design Review
August 2014	System Preliminary Design Review
October 2013	Milestone B Acquisition Decision Memorandum
October 2013	Awarded one 48-month Engineering and Manufacturing Development contract to Raytheon
May 2012	Pre-Engineering and Manufacturing Development Defense Acquisition Board Review
September 2010	Milestone A Acquisition Decision Memorandum
September 2010	Awarded three 24-month Technology Development contracts to Raytheon, Lockheed Martin, and Northrop Grumman
June 2009	Awarded three 6-month Concept Studies contracts to Raytheon, Lockheed Martin, and Northrop Grumman

Air and Missile Defense Backfit - AN/SPY-6(V)4 Subprogram

Program Highlights Since Last Report

In February 2024, AN/SPY-6(V)4 was officially added to the AMDR ACAT 1C program as a Post-MS C major subprogram via Acquisition Program Baseline Change 4. The first unit is on contract in production and targeted to be installed on DDG91 in 2026. The sub-program key focus areas are ship integration, combat system integration, software development, production, and testing. Support for integration with Flight IIA generators, cooling system, and structure is on-going along with planning for installation on DDG 91. Planning for integration with future Aegis B/L 10M Combat System is currently in progress. Software development started after the establishment of radar system requirements. Test and evaluation planning for system testing beginning in FY 2025 is on-going with prime contractor.

(U) History of Significant Developments Since Program Inception

No Data

AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

Program Highlights Since Last Report

After completing Concept Studies and Technology Development phase contracts with Raytheon, Northrop Grumman, and Lockheed Martin, the Air and Missile Defense Radar (AMDR) program achieved Milestone B in September 2013 and received a signed ADM on October 4, 2013. After a full and open competition, the EMD contract was awarded to Raytheon on October 10, 2013.
The EMD phase included integration and test of a single-faced AN/SPY-6(V)1 Engineering Development Model with an AN/SPQ-9B asset at the land-based test site at the Pacific Missile Range Facility (PMRF) in Kauai, HI. Developmental Testing (DT)-3 live testing commenced on September 6, 2016, and included multiple live Air, Surface, Electronic Attack/Electronic Protection (EA/EP), Ballistic Missile Defense (BMD), Integrated Air and Missile Defense, missile communications test set, satellites, and sphere tracking tests. The Vigilant Janus BMD flight test analysis resulted in the March 2018 decision to close DT-3 and direction to conduct a retest. The Vigilant Nemesis retest, successfully executed in January 2019, demonstrated the AN/SPY-6(V)1 capability to detect, track, and discriminate an AEGIS Readiness Assessment Vehicle-CZ complex short-range ballistic missile target and support the design of the AEGIS Baseline (BL) 10 combat system. AN/SPY-6(V)1 testing will continue at PMRF against live Air, Surface, EA/EP, BMD, satellites and sphere targets and other agency Targets of Opportunity (TOOs). During this continued testing and integration period, the SPY-6 team has supported combat system integration with the AEGIS Baseline 10 development team at the Combat System Engineering Development Site (CSEDS). Significant combat system integration and test efforts have also been completed at PMRF using the BL10 Virtual Test Environment installed at the Advanced Radar Development Evaluation Laboratory (ARDEL). During this integration, the radar has supported several multi-mission tracking exercises and BMD TOOs while being commanded by the combat system.
The EMD phase contract included options for nine LRIP units. The program received Milestone C approval on April 27, 2017 and subsequently exercised contract options for three LRIP systems. In April 2018, the AMDR program received an ADM that authorized award of one additional FY 2018 LRIP radar system, and upon successful Vigilant Nemesis test, authorized award of up to five additional LRIP radar systems. On March 14, 2019 three additional options were exercised, and on December 20, 2019 two additional options were exercised bringing the exercised options to a total of nine units. A third ADM dated April 26, 2019, authorized the award of one additional LRIP unit, bringing the total authorized to ten units. This was followed by a fourth ADM issued October 9, 2021, which authorized the AN/SPY-6(V)1 Air and Missile Defense Radar (AMDR) program to procure an additional six AN/SPY-6(V)1 Low Rate Initial Production (LRIP) units, subject to authorization by Congress of DDG 51 Flight III associated with each unit. The Hardware Production and Sustainment (HP&S) contract was awarded 31 March 2022, and AN/SPY-6(V)1 units 10-16 have been put on contract. The fifth ADM was issued July 20, 2023 which authorized the AN/SPY-6(V)1 Air and Missile Defense Radar (AMDR) program to procure up to fourteen additional AN/SPY-6(V)1 Low Rate Initial Production (LRIP) units, subject to Congressional authorization and the availability of appropriations for such purpose.
The AMDR program remains within budget. Equipment for the first 7 shipsets has been delivered with additional LRIP deliveries completing in 2024, and remaining deliveries will be in support of shipbuilding schedules. All delivery outlooks to the shipyards are ahead of need to support

shipbuilding schedules. The program supported the successful completion of the DDG 125 AEGIS Light-Off (ALO) milestone in December 2021. From December 2022 to May 2023, the program supported DDG 125 builder's trials and integrated underway testing. DDG 125 was delivered to the fleet in June 2023. In September 2023, DDG 125 departed HII and completed a successful SM-2 live fire event, commissioning, and transit to home port. The program's focus continued on installation support as well as production and test of the follow-on units, and the continued integration activities with AEGIS BL10. Software deliveries, integration, and testing continues with BL10 to support continued stage testing and ship trials leading to ship delivery. AN/SPY-6(V)1 has design co-dependencies with the combat system that requires further planned software work for integration with AEGIS BL10.
Additional (V)1 units have been procured on HP&S (N00024-22-C-5500) FPIF CLINs.

(U) History of Significant Developments Since Program Inception

No Data

AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

Program Highlights Since Last Report

In Jan 2023, AN/SPY-6(V)2 was officially added to the AMDR ACAT 1C program as a Post- MS C major subprogram via APB. Initial units for this variant were awarded on the Enterprise Air Surveillance Radar (EASR) EMD/LRIP contract, with four (4) AN/SPY-6(V)2 units awarded in 2020. There are now a total of eight (8) AN/SPY-6(V)2 units on contract. The first (V)2 unit was loaded aboard LPD29 starting in 2022. The second (V)2 unit was delivered to LHA-8 and the third was delivered to CVN-74, with loading both beginning in 2023. The fourth (V)2 unit was delivered to LPD-30 in early 2024. The program's focus continued on installation support as well as production and test of the follow-on units, and the continued integration activities with SSDS BL12. Software deliveries, integration, and testing continues with SSDS to support continued stage testing and ship trials leading to ship delivery. AN/SPY-6(V)2 has design co-dependencies with the combat system that requires further planned software work for integration with SSDS BL12.

(U) History of Significant Developments Since Program Inception

Date	Description
February 2024	Completion of LPD-29 Acceptance Trials.
January 2024	Completion of LPD-29 Propulsion Trials.
January 2024	Completion of ship set 4 SPY-6 deliveries.
September 2023	Completion of LPD-29 Bravo Trials.
September 2023	Completion of ship set 3 SPY-6 deliveries.
August 2023	Completion of ship set 2 SPY-6 deliveries.
December 2022	Completion of LPD 29 SPY-6 deliveries.

AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

Program Highlights Since Last Report

In Jan 2023, AN/SPY-6(V)3 was officially added to the AMDR ACAT 1C program as a Post- MS C major subprogram via APB. Initial units for these variants were awarded on the Enterprise Air Surveillance Radar (EASR) EMD/LRIP contract, with two (2) AN/SPY-6(V)3 units awarded in 2020. There are now a total of six (6) AN/SPY-6(V)3 units on contract.
The first (V)3 unit was loaded aboard CVN-79, starting in 2022, the second aboard FFG-62 in early 2024. The program's focus continued on installation support as well as production and test of the follow-on units, and the continued integration activities with SSDS BL12 (for CVN Ford Class (V)3 units) as well as AEGIS BL10F (for Constellation Class FFG (V)3 units). Software deliveries, integration, and testing continues with SSDS BL12 and AEGIS BL10F to support continued stage testing and ship trials leading to ship delivery. AN/SPY-6(V)3 has design co- dependencies with the combat system that requires further planned software work for integration with SSDS BL12 and AEGIS BL10F.

(U) History of Significant Developments Since Program Inception

Date	Description
January 2024	Completion of ship set 2 SPY-6 deliveries.
May 2022	Completion of CVN 79 SPY-6 deliveries.

(U) Schedule

Air and Missile Defense Backfit - AN/SPY-6(V)4 Subprogram

(U) Schedule Events

Events		APB Change 4 (Milestone) 2/9/2024 Objective	APB Change 4 (Current) 2/9/2024 Objective / Threshold		Current Estimate 12/31/2023	Actual
Initial Operational Capability(Start)	IOC	Oct 2029	Oct 2029	Oct 2030	Oct 2029	-

Notes

None

Schedule Baseline Deviation Explanation

None

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

Event	Date	Description
Current	12/31/2023	SPY-6(V)4 Performance Testing: If sufficient full array live radar testing cannot be accomplished prior installation aboard ship, then delays will be incurred to verify residual requirements which could delay ship return to fleet or some requirements may not be met.
Current	12/31/2023	SPY-6(V)4 Power Integration: If power integration issues associated with power ripple cause failures on DDG 91, then additional time and cost will be needed to address defects or system may not be able to meet all requirements

AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

(U) Schedule Events

Events	Production APB (Milestone) 6/30/2017 Objective	APB Change 4 (Current) 2/9/2024 Objective / Threshold	Current Estimate 12/31/2023	Actual

Milestone B	MS B	Oct 2013	Oct 2013	Oct 2013	-	4 Oct 2013
System CDR	CDR	Apr 2015	Apr 2015	Apr 2015	-	29 Apr 2015
Milestone C	MS C	Apr 2017	Apr 2017	Apr 2017	-	27 Apr 2017
DT-3 Complete	DT&E	Aug 2017	Aug 2017	Mar 2018	-	30 Mar 2018
IOT&E Complete	IOT&E	Feb 2024	Feb 2024	Aug 2024	Aug 2024	-
IOC	IOC	Feb 2024	Feb 2024	Aug 2024	Aug 2024	-

Notes

None

Schedule Baseline Deviation Explanation

None

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

Event	Date	Description
Current	12/31/2021	1. There are other Radio Frequency (RF) systems on board each of the AMDR supported ship classes (DDG FLT II, Backfit DDG 51), that operate concurrently. If sufficient electromagnetic isolation between AMDR and other electromagnetic dependent systems on the ship's topside and off board environments cannot be achieved, then electromagnetic CONOPS may be required to successfully integrate AMDR with other collocated equipment and/or topside design changes may be needed to the various ship classes. 2. If a well-tested initial deceptive Electronic Protection (EP) architecture and capability is not delivered as part of Baseline (BL) 10.0, Then the Flight III combat system will be vulnerable to deceptive Electronic Attack (EA) threats, negatively impacting Developmental and Operational Testing (DT/OT).

AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

(U) Schedule Events

Events		APB Version 3 (Milestone) 1/3/2023 Objective	APB Change 4 (Current) 2/9/2024 Objective / Threshold		Current Estimate 12/31/2023	Actual
Initial Operational Capability(Start)	IOC	Aug 2028	Aug 2028	Aug 2029	Aug 2028	-
IOC	IOC	-	-	-	-	-

Notes

None

Schedule Baseline Deviation Explanation

None

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

Event	Date	Description
Current	12/31/2022	Power Management Testing and Ship Power Model
Current	12/31/2022	Spectrum Compliance

AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

(U) Schedule Events

Events		APB Version 3 (Milestone) 1/3/2023 Objective	APB Change 4 (Current) 2/9/2024 Objective / Threshold		Current Estimate 12/31/2023	Actual
Initial Operational Capability(Start)	IOC	Aug 2028	Aug 2028	Aug 2029	Aug 2028	-

Notes

None

Schedule Baseline Deviation Explanation

None

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

Event	Date	Description
Current	12/31/2022	Power Management Testing and Ship Power Model
Current	12/31/2022	Spectrum Compliance

(U) Performance

(U) Air and Missile Defense Backfit - AN/SPY-6(V)4 Subprogram

(U) Performance Attributes

Operational Availability		KPP
Current Estimate 12/31/2023		Not available.
Demonstrated Performance -		TBD
APB Change 4 (Current) 2/9/2024	Objective	Ao>=0.98
	Threshold	Ao>=0.98
APB Change 4 (Milestone) 2/9/2024	Objective	Ao>=0.98
System Training		**KPP**
Current Estimate 12/31/2023		Not available.
Demonstrated Performance -		TBD
APB Change 4 (Current) 2/9/2024	Objective	Ships Force performs>= 99% of corrective and preventative maintenance procedures, as defined in the maintenance manual, within the Time to Repair (TTR) specified to achieve the AN /SPY-6(V)4 Ao KPP.
	Threshold	Ships Force performs>= 99% of corrective and preventative maintenance procedures, as defined in the maintenance manual, within the Time to Repair (TTR) specified to achieve the AN /SPY-6(V)4 Ao KPP.
APB Change 4 (Milestone) 2/9/2024	Objective	Ships Force performs>= 99% of corrective and preventative maintenance procedures, as defined in the maintenance manual, within the Time to Repair (TTR) specified to achieve the AN /SPY-6(V)4 Ao KPP.

(U) Requirement Source:

Sponsor(s): United States Navy

1. NCD, *Appendix to the AEGIS Advanced Capability Build (ACB) 20 Naval Capabilities Document (NCD)*
   Validated By: RDML Pyle, N96, August 1, 2024

Notes

None

Performance Deviation Explanation

None

(U) AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

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

(U) Performance Attributes

Availability		**KPP**
Current Estimate **12/31/2023**		Ao>/=0.99
Demonstrated Performance -		TBD
APB Change 4 (Current) **2/9/2024**	**Objective**	Ao >=0.98
	Threshold	(T=0) Ao >=0.98
Production APB (Milestone) **6/30/2017**	**Objective**	Ao >=0.99
System Training		**KPP**
Current Estimate **12/31/2023**		Ships Force will be sufficiently trained to keep AN/SPY-6(V)1 operating at or above the Ao KPP threshold of 0.98
Demonstrated Performance -		TBD
APB Change 4 (Current) **2/9/2024**	**Objective**	Ships Force performs>= 99% of corrective and preventative maintenance procedures, as defined in the maintenance manual, within the Time to Repair (TTR) specified to achieve the AN/SPY-6(V)1 Ao KPP.
	Threshold	(T=0) Ships Force performs>= 99% of corrective and preventative maintenance procedures, as defined in the maintenance manual, within the Time to Repair (TTR) specified to achieve the AN/SPY-6(V)1 Ao KPP.
Production APB (Milestone) **6/30/2017**	**Objective**	Maintenance technicians correctly perform >= 99% of critical tasks and >= 99% of non-critical tasks as defined in the TTL.
Net Ready		**KPP**
Current Estimate **12/31/2023**		Exemption - AN/SPY-6(V)1 is an embedded element of the AEGIS combat system and does not produce, consume or process joint information.
Demonstrated Performance -		N/A - Exempt
APB Change 4 (Current) **2/9/2024**	**Objective**	Exemption: Net Ready KPP is not applicable to AN/SPY-6(V)1 due to the lack of Joint Interfaces and Joint Information Exchanges.
	Threshold	(T=0) Exemption: Net Ready KPP is not applicable to AN/

		SPY-6(V)1 due to the lack of Joint Interfaces and Joint Information Exchanges.
Production APB (Milestone) **6/30/2017**	**Objective**	Will satisfy applicable Net Ready KPP elements for all operational activities and information exchanges.
Energy Efficiency		**KPP**
Current Estimate **12/31/2023**		Reduced Power Substate 1 consumes 1100kW total power; Reduced Power Substate 2 consumes 850kW total power
Demonstrated Performance -		TBD
APB Change 4 (Current) **2/9/2024**	**Objective**	Two reduced power states to minimize platform fuel consumption: State 1 consumes no more than 1100 kW total prime power; State 2 consumes no more than 850 kW total prime power.
	Threshold	(T=0) Two reduced power states to minimize platform fuel consumption: State 1 consumes no more than 1100 kW total prime power; State 2 consumes no more than 850 kW total prime power.
Production APB (Milestone) **6/30/2017**	**Objective**	Two reduced power states for AMDR-S, when commanded by the platform CMS: State 1 consumes no more than 1100 kW total prime power; State 2 consumes no more than 850 kW total prime power
Survivability		**KPP**
Current Estimate **12/31/2023**		Exemption - AN/SPY-6(V)1 will not decrease the survivability of the DDG 51 hull based on live fire equivalent testing (DDG 81 shock trial)
Demonstrated Performance -		N/A - Exempt
APB Change 4 (Current) **2/9/2024**	**Objective**	Exemption - AN/SPY-6(V)1 will be integrated into the DDG 51 Flt III with no decrease in survivability of the hull based on DDG 51 live fire equivalent testing (DDG 81 shock trial)
	Threshold	(T=0) Exemption - AN/SPY-6(V)1 will be integrated into the DDG 51 Flt III with no decrease in survivability of the hull based on DDG 51 live fire equivalent testing (DDG 81 shock trial)
Production APB (Milestone) **6/30/2017**	**Objective**	(Objective = Threshold) Exemption - AMDR will be integrated into the DDG 51 hull with no decrease in survivability of the hull based on DDG 51 live fire equivalent testing (DDG 81 shock trial)
Force Protection		**KPP**
Current Estimate **12/31/2023**		Exemption - Will support host platform requirement
Demonstrated Performance -		N/A - Exempt
APB Change 4 (Current) **2/9/2024**	**Objective**	Exemption - AN/SPY-6(V)1 will support host platform requirement
	Threshold	(T=0) Exemption - AN/SPY-6(V)1 will support host platform requirement

Production APB (Milestone) **6/30/2017**	**Objective**	(Objective = Threshold) Exemption - Will support host platform requirement

(U) Requirement Source:
Sponsor(s): United States Navy

1. Capability Production Document*, AMDR CPD*
   Validated By: Joint Requirements Oversight Council, March 26, 2018
   Notes: The AMDR CPD was approved by the JROC on 26 March 2018 (JROCM 025-18). The CPD reflects lessons learned from the AMDR EMD Phase and includes updates relative to the AMDR CDD. The Pre-EMD DAB's ADM, dated May 21, 2012, directed a change to the program structure so that it includes only the AMDR S-band system. This APB represents only the S-band radar capabilities from the AMDR CDD/CPD. The X-band capabilities in the AMDR CDD will be addressed in a separate future Program of Record.
2. Capability Development Document*, AMDR CDD*
   Validated By: Joint Requirements Oversight Council, June 27, 2013
   Notes: The AMDR CDD was approved by the JROC on June 27, 2013 (JROCM 123-13). Specific KPP values have been established in the CDD/CPD and those requirements have been flowed down to the AMDR System Requirements Document and the contractor's ASpecification.

Notes

1. Air and Missile Defense Radar Family of Radars: 1-6. Aligns with AMDR CPD
2. Air and Missile Defense Radar Family of Radars: The first two performance parameter values, not reflected here, are classified.
3. The AMDR CDD was approved by the JROC on June 27, 2013 (JROCM 123-13). Specific KPP values have been established in the CDD/CPD and those requirements have been flowed down to the AMDR System Requirements Document and the contractor's ASpecification.
4. The AMDR CPD was approved by the JROC on 26 March 2018 (JROCM 025-18). The CPD reflects lessons learned from the AMDR EMD Phase and includes updates relative to the AMDR CDD. The Pre-EMD DAB's ADM, dated May 21, 2012, directed a change to the program structure so that it includes only the AMDR S-band system. This APB represents only the S-band radar capabilities from the AMDR CDD/CPD. The X-band capabilities in the AMDR CDD will be addressed in a separate future Program of Record.

Performance Deviation Explanation

None

(U) AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

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

(U) Performance Attributes

Above Horizon Search (AHS) Firm Track Range on Key Driving Threat	KPP

Current Estimate **12/31/2023**		Detection of a representative threat within the radar's field of view and a Firm Track Range requirement
Demonstrated Performance -		TBD
APB Change 4 (Current) **2/9/2024**	**Objective**	Detection of a representative threat within the radar's field of view and a Firm Track Range requirement
	Threshold	Detection of a representative threat within the radar's field of view and a Firm Track Range requirement
APB Version 3 (Milestone) **1/3/2023**	**Objective**	Firm Track range of a representative threat within the radars field of view.
Air Traffic Control (ATC) Update Rate		**KPP**
Current Estimate **12/31/2023**		Track report rate to meet Air Traffic Control mission
Demonstrated Performance -		TBD
APB Change 4 (Current) **2/9/2024**	**Objective**	Track report rate to meet Air Traffic Control mission*
	Threshold	Track report rate to meet Air Traffic Control mission*
APB Version 3 (Milestone) **1/3/2023**	**Objective**	Track report rate to meet Air Traffic Control mission*
Operational Availability (Ao)		**KPP**
Current Estimate **12/31/2023**		-
Demonstrated Performance -		-
APB Change 4 (Current) **2/9/2024**	**Objective**	Ao>= 0.98
	Threshold	Ao>= 0.98
APB Version 3 (Milestone) **1/3/2023**	**Objective**	Ao>= 0.98

(U) Requirement Source:
Sponsor(s): United States Navy

1. NCD, *Enterprise Requirements Suite (ERS) NCD*
   Validated By: Other, November 29, 2018
   Notes: The Enterprise Radar Suite (ERS) NCD was approved on 29 Nov 2018. The NCD reflects inputs from the Capabilities Based Assessment to identify replacement radars for Carriers and Amphibious Ships. Specific KPP values have been established in the NCD and those requirements have been flowed down to the SPY-6(V)2 System Requirements Document and the contractor's A-Specification.

Notes

Air and Missile Defense Radar Family of Radars: The first two performance parameter values, not reflected here, are classified.

Performance Deviation Explanation

None

(U) AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

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

(U) Performance Attributes

Air Traffic Control (ATC) Update Rate		KPP
Current Estimate 12/31/2023		Track report rate to meet Air Traffic Control mission*
Demonstrated Performance -		-
APB Change 4 (Current) 2/9/2024	Objective	Track report rate to meet Air Traffic Control mission*
	Threshold	Track report rate to meet Air Traffic Control mission*
APB Version 3 (Milestone) 1/3/2023	Objective	Track report rate to meet Air Traffic Control mission*
Operational Availability		**KPP**
Current Estimate 12/31/2023		-
Demonstrated Performance -		-
APB Change 4 (Current) 2/9/2024	Objective	Ao>=0.98
	Threshold	Ao>=0.98
APB Version 3 (Milestone) 1/3/2023	Objective	Ao>=0.98
Above Horizon Search (AHS) Firm Track Range on Key Driving Threat		**KPP**
Current Estimate 12/31/2023		-
Demonstrated Performance -		-
APB Change 4 (Current) 2/9/2024	Objective	Detection of a representative threat within the radars field of view and a Firm Track Range requirement
	Threshold	Detection of a representative threat within the radars field of view and a Firm Track Range requirement

APB Version 3 (Milestone) 1/3/2023	Objective	Firm track range of a representative threat within the radar's field of view

(U) Requirement Source:
Sponsor(s): United States Navy

1. NCD*, Enterprise Requirements Suite (ERS) NCD*
   Validated By: Other, November 29, 2018
   Notes: The Enterprise Radar Suite (ERS) NCD was approved on 29 Nov 2018. The NCD reflects inputs from the Capabilities Based Assessment to identify replacement radars for Carriers and Amphibious Ships. Specific KPP values have been established in the NCD and those requirements have been flowed down to the SPY-6(V)3 System Requirements Document and the contractor's A-Specification.

Notes

Air and Missile Defense Radar Family of Radars: The first two performance parameter values, not reflected here, are classified.

Performance Deviation Explanation

None

(U) Acquisition Budget Estimate

(U) Air and Missile Defense Backfit - AN/SPY-6(V)4 Subprogram

(U) Total Acquisition Estimates and Quantities

Category ($M) Base Year: 2013	APB Change 4 (Milestone) 2/9/2024 CY$ obs Objective	APB Change 4 (Current) 2/9/2024 CY$ obs Objective / Threshold		Current Estimate PB 2025 CY$ obs / TY$ obs	
RDT&E	108.4	108.4	119.3	100.2	139.7
Procurement	4,378.5	4,378.5	4,816.3	4,095.6	6,408.2
Total Acquisition	4,486.9	4,486.9	-	4,195.8	6,547.9
Program Acquisition Unit Cost	179.476	179.476	197.424	167.832	261.916
Average Procurement Unit Cost	175.138	175.138	192.652	163.824	256.328
Program End-Item Quantity					
Development	0	0		-	
Procurement	25	25		25	
O&M-Acquired	-	-		-	

Budget Notes

None

Quantity Notes

1) This SAR aligns with PB 2025.

Cost Baseline Deviation Explanation

None

(U) Risk and Sensitivity Analysis

Current Procurement Estimate Risks (12/31/2023)
None
Current Baseline Risks (2/9/2024)
None
Original Baseline Risks (2/9/2024)
None

(U) AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

(U) Total Acquisition Estimates and Quantities

Category ($M) Base Year: 2013	Production APB (Milestone) 6/30/2017 CY$ obs Objective	APB Change 4 (Current) 2/9/2024 CY$ obs Objective / Threshold		Current Estimate PB 2025 CY$ obs / TY$ obs	
RDT&E	1,986.6	1,795.1	1,974.6	1,817.8	1,907.4
Procurement	3,278.3	4,389.9	4,828.9	4,815.3	6,785.1
MILCON	28.6	28.6	31.4	28.6	27.5
O&M	0.0	-	-	-	-
R&MF	-	0.0	0.0	-	-
Total Acquisition	5,293.5	6,213.6	-	6,661.7	8,720.0
Program Acquisition Unit Cost	240.614	230.132	253.145	222.057	290.667
Average Procurement Unit Cost	149.014	162.589	178.848	160.510	226.170
Program End-Item Quantity					
Development	0	0		-	
Procurement	22	27		30	
O&M-Acquired	-	-		-	

Budget Notes

Total procurement cost has increased based on the addition of 3 ship sets (30 vs 27) in comparison to the APB. Also, the cost reflects the support increase impacts of IOT&E extension and projected waterfront requirements based on lead ship experience and actuals.
1) Total Acquisition Cost includes RDT&E, Procurement, and Military Construction. Numbers reflect PB 2025.
2) Procurement funding for AMDR is also included in the DDG 51 SAR under Program Element: 0204222N. AMDR ship-set procured with FY 2016 funds will be used for an FY 2018 FLT III.
3) RDT&E FY 2025 based PB 2025 controls adjustments (+$3.0M). RDT&E associated with efforts outside the scope of the original AMDR (AN/SPY-6(V)1) APB (i.e., AN/SPY-6(V)2 and(V)3, DDG 51 FLT IIA backfit, AN/SPY-6 (V)1A Phase 1 Aspire Hardware Transition and Advanced Distributed Radar capability enhancement)) is excluded from this report (i.e., $254.9M in FY 2019-2025). However, funding for all AN/SPY-6(V) Family of Radars development is captured under RDT&E Program Element 0604522N.
4) APUC Current Estimate includes portion of scope beyond unit cost to deliver and support radar equipment (AEGIS BL10 integration and test efforts) that cannot be separated in DAVE - actual APUC adjusted to remove this is $158.7M.

Quantity Notes

1) This SAR aligns with PB 2025.

Cost Baseline Deviation Explanation

None

(U) Risk and Sensitivity Analysis

Current Procurement Estimate Risks (12/31/2023)	
1	In the Milestone C ICE, CAPE identified the risk of production approval absent the completion of planned Developmental Testing (DT)-3 activities. There is a risk of discovering issues during testing that could result in the need for design changes. Note: The ICE prepared for Milestone C is the most recent ICE. An ICE was not prepared for the current estimate.
2	AMDR (BY 2013$M): Total Procurement Cost - $4,815.3; APUC - $158.7* *Note that Budget Estimate PB 2025 APUC value was adjusted to exclude activities beyond MS C planned efforts which include additional Land Based Testing and System Engineering Baseline 10 efforts. Risk and Sensitivity analysis - AMDR procurement cost for non-negotiated AMDR units (FY26 and out) and DDG FLT III Master Phasing Schedule adjustments
Current Baseline Risks (2/9/2024)	
None	
Revised Original Baseline Risks (2/9/2024)	
None	

(U) AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

(U) Total Acquisition Estimates and Quantities

Category ($M) Base Year: 2013	APB Version 3 (Milestone) 1/3/2023 CY$ obs Objective	APB Change 4 (Current) 2/9/2024 CY$ obs Objective / Threshold		Current Estimate PB 2025 CY$ obs / TY$ obs	
RDT&E	143.8	143.8	158.1	146.3	177.9
Procurement	471.6	471.6	518.8	486.4	720.2
Total Acquisition	615.4	615.4	-	632.7	898.1
Program Acquisition Unit Cost	47.338	47.337	52.071	42.180	59.873
Average Procurement Unit Cost	36.277	36.278	39.906	32.427	48.013
Program End-Item Quantity					
Development	0	0		-	
Procurement	13	13		15	
O&M-Acquired	-	-		-	

Budget Notes

Total procurement cost has increased based on the addition of 2 ships sets (15 vs 13) in comparison to the APB.

Quantity Notes

1) This SAR aligns with PB 2025.

Cost Baseline Deviation Explanation

None

(U) Risk and Sensitivity Analysis

Current Procurement Estimate Risks (12/31/2023)	
1	SPY-6(V)2 procurement cost for non-negotiated units (FY26 and out) and SPY-6(V)2 platform Master Phasing Schedule adjustments
Current Baseline Risks (2/9/2024)	
None	
Original Baseline Risks (1/3/2023)	
None	

(U) AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

(U) Total Acquisition Estimates and Quantities

Category ($M) Base Year: 2013	APB Version 3 (Milestone) 1/3/2023 CY$ obs Objective	APB Change 4 (Current) 2/9/2024 CY$ obs Objective / Threshold		Current Estimate PB 2025 CY$ obs / TY$ obs	
RDT&E	213.7	213.7	235.1	213.9	266.1
Procurement	1,347.9	1,347.9	1,482.7	1,235.8	2,053.1
Total Acquisition	1,561.6	1,561.5	-	1,449.7	2,319.2
Program Acquisition Unit Cost	65.067	65.064	71.570	57.988	92.768
Average Procurement Unit Cost	56.163	56.161	61.777	49.432	82.124
Program End-Item Quantity					
Development	0	0		-	
Procurement	24	24		25	
O&M-Acquired	-	-		-	

Budget Notes

Total procurement cost has increased based on the addition of 1 ship set (25 vs 24) in comparison to the APB.

Quantity Notes

1) This SAR aligns with PB 2025.

Cost Baseline Deviation Explanation

None

(U) Risk and Sensitivity Analysis

Current Procurement Estimate Risks (12/31/2023)
None
Current Baseline Risks (2/9/2024)
None
Original Baseline Risks (1/3/2023)
None

(U) Unit Costs

(U) Air and Missile Defense Backfit - AN/SPY-6(V)4 Subprogram

(U) Current Estimate Compared with Current Baseline

Category (CY$M) Base Year: 2013	Current Baseline 02/09/2024	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	4,486.9	4,195.8	
Program Quantity	25	25	
PAUC	179.476	167.832	-6.49%
Average Procurement Unit Cost			
Procurement Cost	4,378.5	4,095.6	
Procurement Quantity	25	25	
APUC	175.138	163.824	-6.46%

(U) Current Estimate Compared with Original Baseline

Category (CY$M) Base Year: 2013	Original Baseline 02/09/2024	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	4,486.9	4,195.8	
Program Quantity	25	25	
PAUC	179.476	167.832	-6.49%
Average Procurement Unit Cost			
Procurement Cost	4,378.5	4,095.6	
Procurement Quantity	25	25	
APUC	175.138	163.824	-6.46%

Notes

None

(U) AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

(U) Current Estimate Compared with Current Baseline

Category (CY$M) Base Year: 2013	Current Baseline 02/09/2024	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	6,213.6	6,661.7	
Program Quantity	27	30	
PAUC	230.132	222.057	-3.51%
Average Procurement Unit Cost			
Procurement Cost	4,389.9	4,815.3	
Procurement Quantity	27	30	
APUC	162.589	160.510	-1.28%

(U) Current Estimate Compared with Original Baseline

Category (CY$M) Base Year: 2013	Original Baseline 02/09/2024	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	6,213.6	6,661.7	
Program Quantity	27	30	
PAUC	230.132	222.057	-3.51%
Average Procurement Unit Cost			
Procurement Cost	4,389.9	4,815.3	
Procurement Quantity	27	30	
APUC	162.589	160.510	-1.28%

(U) Cost Growth Details

Impacts of Schedule Changes on Unit Cost

N/A

Impacts of Performance Changes on Unit Cost

N/A

Actions taken or Proposed to Control Future Cost Growth

Competition and Second Sourcing for top hardware drivers in the next Hardware Procurement & Sustainment (HP&S) contract (FY26 and out).

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

See Contracts section.

Notes

- APUC Current Estimate includes portion of scope beyond unit cost to deliver and support radar equipment (AEGIS BL10 integration and test efforts) that cannot be separated in DAVE - actual

APUC adjusted to remove this is $158.7M.

(U) AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

(U) Current Estimate Compared with Current Baseline

Category (CY$M) Base Year: 2013	Current Baseline 02/09/2024	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	615.4	632.7	
Program Quantity	13	15	
PAUC	47.337	42.180	-10.89%
Average Procurement Unit Cost			
Procurement Cost	471.6	486.4	
Procurement Quantity	13	15	
APUC	36.278	32.427	-10.62%

(U) Current Estimate Compared with Original Baseline

Category (CY$M) Base Year: 2013	Original Baseline 01/03/2023	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	615.4	632.7	
Program Quantity	13	15	
PAUC	47.338	42.180	-10.90%
Average Procurement Unit Cost			
Procurement Cost	471.6	486.4	
Procurement Quantity	13	15	
APUC	36.277	32.427	-10.61%

(U) Cost Growth Details

Impacts of Schedule Changes on Unit Cost

N/A

Impacts of Performance Changes on Unit Cost

N/A

Actions taken or Proposed to Control Future Cost Growth

N/A

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) AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

(U) Current Estimate Compared with Current Baseline

Category (CY$M) Base Year: 2013	Current Baseline 02/09/2024	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	1,561.5	1,449.7	
Program Quantity	24	25	
PAUC	65.064	57.988	-10.88%
Average Procurement Unit Cost			
Procurement Cost	1,347.9	1,235.8	
Procurement Quantity	24	25	
APUC	56.161	49.432	-11.98%

(U) Current Estimate Compared with Original Baseline

Category (CY$M) Base Year: 2013	Original Baseline 01/03/2023	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	1,561.6	1,449.7	
Program Quantity	24	25	
PAUC	65.067	57.988	-10.88%
Average Procurement Unit Cost			
Procurement Cost	1,347.9	1,235.8	
Procurement Quantity	24	25	
APUC	56.163	49.432	-11.98%

(U) Cost Growth Details

Impacts of Schedule Changes on Unit Cost

N/A

Impacts of Performance Changes on Unit Cost

N/A

Actions taken or Proposed to Control Future Cost Growth

N/A

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) Air and Missile Defense Backfit - AN/SPY-6(V)4 Subprogram

(U) Operating and Support and Disposal Cost Estimates Compared with Baseline

Category ($M) Base Year: 2013	APB Change 4 (Milestone) 2/9/2024 CY$ obs Objective	APB Change 4 (Current) 2/9/2024 CY$ obs Objective / Threshold		Current Estimate CY$ obs / TY$ obs	
Total O&S	2,584.6	2,584.6	2,843.1	2,601.4	4,789.4
Total Disposal	-	-	-	19.3	-

(U) Current Cost Estimate Sources

Operating and Support Cost
Type: Program Office Estimate
Approved by: Steve Hoerst, April 09, 2024

Disposal/Demilitarization Cost
Type: Program Office Estimate
Approved by: Steve Hoerst, February 27, 2023

Operating and Support Baseline Deviation Explanation

None

Cost Notes

Increases in the SPY-6 (V)4 radar system estimate from the APB to the current estimate are primarily due to Land Based Test Site Support, and inclusive of PB25 inflation indices.
For SPY-6 (V)4, Unit-Level Manpower, Unit Operations, and Indirect Support are not reported because these costs are considered Ship Level costs. Current Estimate includes System Operations and Maintenance, Navy (OMN) (TY $3,200.9M, BY 2013 $1,773.8M) and Fleet OMN (TY $1,588.6M, BY 2013 $827.6M).
Estimated Disposal/Demilitarization cost for 25 SPY-6(V)4 systems following decommission dates.
Disposal/Demilitarization Cost Estimate and Source of Estimate: $19.2 (BY$ Million), Source of Estimate POE

(U) Operating and Support Variance with Prior Estimate

(CY$M) Base Year: 2013	Estimate	
Prior Estimate (2/13/2023)	2,584.6	
Current Estimate	2,601.4	

(CY$M) Base Year: 2013	Estimate	
Category	**Variance**	**Explanation**
Unit-Level Manpower	-	
Unit Operations	-	
Maintenance	16.8	Additional FY26 LBTS support
Sustaining Support	-	
Continuing System Improvements	-	
Other	-	
Not Categorized	0.0	

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

(CY$M) Base Year: 2013							
System	**Unit-Level Manpower**	**Unit Operations**	**Maintenance**	**Sustaining Support**	**Continuing System Improvements**	**Other**	**Total**
AN/SPY-6(V)4	-	-	926.2	1,495.9	179.3	-	**2,601.4**
Program	**-**	**-**	**926.2**	**1,495.9**	**179.3**	**-**	**2,601.4**

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

(CY$M) Base Year: 2013							
System	**Unit-Level Manpower**	**Unit Operations**	**Maintenance**	**Sustaining Support**	**Continuing System Improvements**	**Other**	**Total**
AN/SPY-6(V)4	-	-	1.7	2.7	0.3	-	**4.7**
AN/SPY-1D(V) (Antecedent)	-	-	2.5	1.5	1.4	-	**5.4**

(U) Operating and Support Cost Estimate Assumptions

System	Quantity to Sustain	Unit Expected Service Life (Years)	Unit of Measure	Fiscal Years Operational
AN/SPY-6(V)4	25	22.0	Radar System	2025 - 2066
AN/SPY-1D(V) (Antecedent)	32	35.0	Radar System	2004 - 2056

Additional O&S Estimate Assumptions

Each AMDR System includes four fully populated AMDR-S array faces and a Radar Suite Controller. The O&S Cost Estimate has been updated and aligns to the SAR submission and reflects PB25

controls.

Antecedent Estimate Assumptions

The antecedent system is AN/SPY-1D(V). AN/SPY-1D(V) has fielded 32 systems, each with a planned service life of 35 years. The source of the cost estimate is the Naval Sea Systems Command Systems Engineering Directorate - Cost Engineering and Industrial Analysis Division AN/SPY-1D(V) FRP ICE dated November 14, 2011 with the following adjustment: incorporated same forward pricing rate recommendation (FPRR) escalation rate as AMDR and added hardware modification costs based on percentage allocation of AEGIS weapon system MK-7 hardware modification cost. The AN/SPY-1D(V) Sustaining Support cost element does not include costs for Operating Equipment Replacement, whereas AMDR does.

O&S Annual Cost Calculation Memo

Total System O&S [BY 2013 $2,601.3M] = unitized cost [BY 2013 $4.730M] * number of systems [25] * service life per system [22].

(U) AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

(U) Operating and Support and Disposal Cost Estimates Compared with Baseline

Category ($M) Base Year: 2013	Production APB (Milestone) 6/30/2017 CY$ obs Objective	APB Change 4 (Current) 2/9/2024 CY$ obs Objective / Threshold		Current Estimate CY$ obs / TY$ obs	
Total O&S	3,821.4	5,461.7	6,007.9	6,052.7*	13,715.4
Total Disposal	-	0.0	-	21.4	-

* Baseline Deviation

(U) Current Cost Estimate Sources

Operating and Support Cost
Type: Program Office Estimate
Approved by: Steve Hoerst, PAPM Advanced Radars, April 09, 2024

Disposal/Demilitarization Cost
Type: Program Office Estimate
Approved by: Steve Hoerst, February 27, 2023

Operating and Support Baseline Deviation Explanation

Increases in the SPY-6 (V)1 radar system estimate from the APB to the current estimate are primarily due to change in profile (addition of 3 ships). Other changes include: Land Based Test Site

Support addition, inclusive of PB25 inflation indices, cost estimating methodology modifications, and design maturity.

Cost Notes

For SPY-6(V)1, Unit-Level Manpower, Unit Operations, and Indirect Support are not reported because these costs are considered Ship Level costs. Current Estimate includes System Operations and Maintenance, Navy (OMN) (TY $13,240.5M, BY 2013 $5,854.0M) and Fleet OMN (TY $479.9M, BY 2013 $198.7).
Estimated Disposal/Demilitarization cost for 30 SPY-6(V)1 systems following decommission dates. Disposal/Demilitarization Cost Estimate and Source of Estimate: $21.4 (BY$Million), Source of Estimate POE

(U) Operating and Support Variance with Prior Estimate

(CY$M) Base Year: 2013	Estimate	
Prior Estimate (3/16/2023)	5,461.7	
Current Estimate	6,052.7	
Category	**Variance**	**Explanation**
Unit-Level Manpower	-	
Unit Operations	-	
Maintenance	288.5	Profile Adjustment, and addition of Land Based Test Site (LBTS) support through FYDP
Sustaining Support	322.3	Profile Adjustment, and New Depot Maintenance support (Test Set Maintenance)
Continuing System Improvements	-19.8	New Ship Integration and Test Suite (SITS) Licenses & additional decrease due to the removal of HIDS License requirement
Other	-	
Not Categorized	0.0	

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

(CY$M) Base Year: 2013							
System	**Unit-Level Manpower**	**Unit Operations**	**Maintenance**	**Sustaining Support**	**Continuing System Improvements**	**Other**	**Total**
AN/SPY-6(V)1	-	-	2,407.2	3,171.3	474.2	-	**6,052.7**
Program	-	-	**2,407.2**	**3,171.3**	**474.2**	-	**6,052.7**

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

(CY$M) Base Year: 2013

System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
AN/SPY-6(V)1	-	-	2.0	2.6	0.4	-	**5.0**
AN/SPY-1D(V) (Antecedent)	-	-	2.5	1.5	1.4	-	**5.4**

(U) Operating and Support Cost Estimate Assumptions

System	Quantity to Sustain	Unit Expected Service Life (Years)	Unit of Measure	Fiscal Years Operational
AN/SPY-6(V)1	30	40.0	Ship Set	2021 - 2079
AN/SPY-1D(V) (Antecedent)	32	35.0	Ship Set	2004 - 2056

Additional O&S Estimate Assumptions

Each AMDR System includes four fully populated AMDR-S array faces and a Radar Suite Controller. The O&S Cost Estimate has been updated and aligns to the SAR submission and reflects PB25 controls.

Antecedent Estimate Assumptions

The antecedent system is AN/SPY-1D(V). AN/SPY-1D(V) has fielded 32 systems, each with a planned service life of 35 years. The source of the cost estimate is the Naval Sea Systems Command Systems Engineering Directorate - Cost Engineering and Industrial Analysis Division AN/SPY-1D(V) FRP ICE dated November 14, 2011 with the following adjustment: incorporated same forward pricing rate recommendation (FPRR) escalation rate as AMDR and added hardware modification costs based on percentage allocation of AEGIS weapon system MK-7 hardware modification cost. The AN/SPY-1D(V) Sustaining Support cost element does not include costs for Operating Equipment Replacement, whereas AMDR does.

O&S Annual Cost Calculation Memo

Total System O&S [BY 2013 $6,052.7M] = unitized cost [BY 2013 $5.044M] * number of systems [30] * service life per system [40].

(U) AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

(U) Operating and Support and Disposal Cost Estimates Compared with Baseline

Category ($M) Base Year: 2013	APB Version 3 (Milestone) 1/3/2023 CY$ obs	APB Change 4 (Current) 2/9/2024 CY$ obs	Current Estimate CY$ obs / TY$ obs

	Objective	Objective / Threshold			
Total O&S	733.1	733.1	806.4	1,088.5*	2,361.9
Total Disposal	-	-	-	1.7	-

* Baseline Deviation

(U) Current Cost Estimate Sources

Operating and Support Cost
Type: Program Office Estimate
Approved by: Steve Hoerst, PAPM Advanced Radars, April 09, 2024

Disposal/Demilitarization Cost
Type: Program Office Estimate
Approved by: Steve Hoerst, February 27, 2023

Operating and Support Baseline Deviation Explanation

Increases in the SPY-6 (V)2 radar system estimate from the APB to the current estimate are due to PB24 SAR cost estimating methodology modifications (tech refresh cycle length adjusted from 8 year to 6 years, and Activity FTE support refinements), including PB25 increases due to Land Based Test Site Support, inflation indices, change in profile (addition of 1 ships), and design maturity.

Cost Notes

O&S data has been updated to align with the December 2022 SAR submission.
For SPY-6(V)2, Unit-Level Manpower, Unit Operations, and Indirect Support are not reported because these costs are considered Ship Level costs. Current Estimate includes System Operations and Maintenance, Navy (OMN) (TY $2,241.9M, BY 2013 $1,035.3M) and Fleet OMN (TY $120.0M, BY 2013 $53.2M).
Estimated Disposal/Demilitarization cost for 15 SPY-6(V)2 systems following decommission dates.
Disposal/Demilitarization Cost Estimate and Source of Estimate: $1.7 (BY$Million), Source of Estimate POE

(U) Operating and Support Variance with Prior Estimate

(CY$M) Base Year: 2013	Estimate	
Prior Estimate (3/16/2023)	952.5	
Current Estimate	1,088.5	
Category	**Variance**	**Explanation**
Unit-Level Manpower	-	
Unit Operations	-	
Maintenance	39.1	Profile Adjustment, and additional LBTS support through FYDP
Sustaining Support	112.6	Profile Adjustment & New Depot Maintenance support (Test Set Maintenance)

(CY$M) Base Year: 2013	Estimate	
Continuing System Improvements	-15.6	New SITS Licenses & additional decrease due to the removal of HIDS License requirement)
Other	-	
Not Categorized	-0.1	

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

(CY$M) Base Year: 2013							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
AN/SPY-6(V)2	-	-	184.4	773.8	130.3	-	**1,088.5**
Program	**-**	**-**	**184.4**	**773.8**	**130.3**	**-**	**1,088.5**

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

(CY$M) Base Year: 2013							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
AN/SPY-6(V)2	-	-	0.3	1.5	0.2	-	**2.1**

(U) Operating and Support Cost Estimate Assumptions

System	Quantity to Sustain	Unit Expected Service Life (Years)	Unit of Measure	Fiscal Years Operational
AN/SPY-6(V)2	15	35.2	Radar System	2021 - 2078

Additional O&S Estimate Assumptions

Each EASR System includes one fully populated EASR-S rotating array face and a Radar Suite Controller.

Antecedent Estimate Assumptions

The antecedent system is AN/SPY-1D(V). AN/SPY-1D(V) has fielded 32 systems, each with a planned service life of 35 years. The source of the cost estimate is the Naval Sea Systems Command Systems Engineering Directorate - Cost Engineering and Industrial Analysis Division AN/SPY-1D(V) FRP ICE dated November 14, 2011 with the following adjustment: incorporated same forward pricing rate recommendation (FPRR) escalation rate as AMDR and added hardware modification costs based on percentage allocation of AEGIS weapon system MK-7 hardware modification cost. The AN/SPY-1D(V) Sustaining Support cost element does not include costs for Operating Equipment Replacement, whereas AMDR does.

O&S Annual Cost Calculation Memo

Total System O&S [BY 2013 $1,088.5M] = unitized cost [BY 2013 $2.062M] * number of systems [15] * service life per system [35.2].

(U) AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

(U) Operating and Support and Disposal Cost Estimates Compared with Baseline

Category ($M) Base Year: 2013	APB Version 3 (Milestone) 1/3/2023 CY$ obs Objective	APB Change 4 (Current) 2/9/2024 CY$ obs Objective / Threshold		Current Estimate CY$ obs / TY$ obs	
Total O&S	2,123.6	2,123.6	2,336.0	2,406.9*	6,674.1
Total Disposal	-	-	-	6.4	-

* Baseline Deviation

(U) Current Cost Estimate Sources

Operating and Support Cost
Type: Program Office Estimate
Approved by: Steve Hoerst, PAPM Advanced Radars, April 09, 2024

Disposal/Demilitarization Cost
Type: Program Office Estimate
Approved by: Steve Hoerst, February 27, 2023

Operating and Support Baseline Deviation Explanation

Increases in the SPY-6 (V)3 radar system estimate from the APB to the current estimate are due to PB24 SAR cost estimating methodology modifications (tech refresh cycle length adjusted from 8 year to 6 years, and Activity FTE support refinements), including PB25 increases due to Land Based Test Site Support, inflation indices, change in profile (addition of 1 ships), and design maturity.

Cost Notes

For SPY-6 (V)3, Unit-Level Manpower, Unit Operations, and Indirect Support are not reported because these costs are considered Ship Level costs. Current Estimate includes System Operations and Maintenance, Navy (OMN) (TY $6,455.2M, BY 2013 $2,327.3M) and Fleet OMN (TY $218.8M, BY 2013 $79.6M).
Disposal/Demilitarization Cost Estimate and Source of Estimate: $6.4 (BY$Million), Source of Estimate POE
Estimated Disposal/Demilitarization cost for 25 SPY-6(V)3 systems following decommission dates.

(U) Operating and Support Variance with Prior Estimate

(CY$M) Base Year: 2013	Estimate	
Prior Estimate (3/16/2023)	2,251.6	
Current Estimate	2,406.9	
Category	**Variance**	**Explanation**
Unit-Level Manpower	-	
Unit Operations	-	
Maintenance	14.5	Profile Adjustment, and additional LBTS support through FYDP
Sustaining Support	170.1	Profile Adjustment & New Depot Maintenance support (Test Set Maintenance)
Continuing System Improvements	-29.3	New SITS Licenses & additional decrease due to the removal of HIDS License requirement)
Other	-	
Not Categorized	0.0	

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

(CY$M) Base Year: 2013							
System	**Unit-Level Manpower**	**Unit Operations**	**Maintenance**	**Sustaining Support**	**Continuing System Improvements**	**Other**	**Total**
AN/SPY-6(V)3	-	-	452.7	1,628.7	325.5	-	**2,406.9**
Program	**-**	**-**	**452.7**	**1,628.7**	**325.5**	**-**	**2,406.9**

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

(CY$M) Base Year: 2013							
System	**Unit-Level Manpower**	**Unit Operations**	**Maintenance**	**Sustaining Support**	**Continuing System Improvements**	**Other**	**Total**
AN/SPY-6(V)3	-	-	0.5	1.9	0.4	-	**2.9**

(U) Operating and Support Cost Estimate Assumptions

System	Quantity to Sustain	Unit Expected Service Life (Years)	Unit of Measure	Fiscal Years Operational
AN/SPY-6(V)3	25	33.8	Radar System	2024 - 2112

Additional O&S Estimate Assumptions

The O&S Cost Estimate has been updated and aligns to the SAR submission and reflects PB25 controls.

Antecedent Estimate Assumptions

The antecedent system is AN/SPY-1D(V). AN/SPY-1D(V) has fielded 32 systems, each with a planned service life of 35 years. The source of the cost estimate is the Naval Sea Systems Command Systems Engineering Directorate - Cost Engineering and Industrial Analysis Division AN/SPY-1D(V) FRP ICE dated November 14, 2011 with the following adjustment: incorporated same forward pricing rate recommendation (FPRR) escalation rate as AMDR and added hardware modification costs based on percentage allocation of AEGIS weapon system MK-7 hardware modification cost. The AN/SPY-1D(V) Sustaining Support cost element does not include costs for Operating Equipment Replacement, whereas AMDR does.

O&S Annual Cost Calculation Memo

Total System O&S [BY 2013 $2,406.9M] = unitized cost [BY 2013 $2.853M] * number of systems [25] * service life per system [33.8].

(U) Technologies and Systems Engineering

(U) Air and Missile Defense Backfit - AN/SPY-6(V)4 Subprogram

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

Event	Date	Description
Current	3/26/2024	Performance Testing: SPY-6(V)4 will have to accomplish developmental testing before fielding. Backfit performance testing will include demonstration of performance in a live environment (clutter attenuation, sensitivity, low-E accuracy, search rasters, beamwidths, EA/EP, missile support, etc). If sufficient full array live radar testing cannot be accomplished prior to installation on-board ship, then delays will be incurred aboard the first backfit ship to verify residual requirements and operational testing, which could lead to a slip in return to fleet and the potential that some requirements are not met.
Current	3/26/2024	Power Integration: The (V)4 Power System will be a unique configuration with the addition of newly designed Power Combiner and Distribution Unit and Prime Power Equipment from EASR. If power integration issues associated with power ripple cause failures on DDG 91, then additional time and cost will be needed to address defects in the power system and/or power system may not meet all requirements

(U) AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

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

Event	Date	Description
Current	12/2/2021	Electronic Protection: Radar systems employing active array technology and coherent waveforms are susceptible to deceptive EA. If a well-tested initial deceptive EP architecture and capability is not delivered as part of BL 10.0, then the Flight III Combat System will be vulnerable to deceptive EA threats, negatively impacting DT/OT
Current	12/2/2021	Electromagnetic Interference: AMDR is required to operate in a congested S-Band environment and must be compatible with other co-site and off-board RF systems. If Electromagnetic isolation between AMDR and other electromagnetic dependent systems on the ship's topside and in the onboard environment cannot be achieved, then Electromagnetic CONOPS may be required to successfully integrate AMDR with other co-located equipment and/or topside design changes may be needed to the various ship classes.

(U) AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

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

Event	Date	Description
Current	12/14/2022	Power Management Testing and Ship Power Model: If the common power requirements (SPY-6(V)2 and (V)3) are not verified at the LBTS and on-board ship and behavior of EASR is not accurately modeled, then the operational power monitoring guidance similar to DBR must be implemented to include pre-approval on ships power of s/w run requests and suspending radar operations until observed non-compliances are root caused (exception for Flight Ops). This could result in increased cost and significant schedule delays.
Current	12/14/2022	Out-of-Band Emissions Compliance: If electromagnetic isolation between SPY-6(V)2/3's out-of-band emissions and other electromagnetic dependent systems on the ship's topside and in the on-board environment cannot be achieved, then electromagnetic CONOPS may be required to successfully integrate SPY-6(V)2/3 with other collocated equipment and/or topside design changes may be needed to the various ship classes.

(U) AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

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

Event	Date	Description
Current	12/14/2022	Power Management Testing and Ship Power Model: If the common power requirements (SPY-6(V)2 and (V)3) are not verified at the LBTS and on-board ship and behavior of EASR is not accurately modeled, then the operational power monitoring guidance similar to DBR must be implemented to include pre-approval on ships power of s/w run requests and suspending radar operations until observed non-compliances are root caused (exception for Flight Ops). This could result in increased cost and significant schedule delays.
Current	12/14/2022	Out-of-Band Emissions Compliance: If electromagnetic isolation between SPY-6(V)2/3's out-of-band emissions and other electromagnetic dependent systems on the ship's topside and in the on-board environment cannot be achieved, then electromagnetic CONOPS may be required to successfully integrate SPY-6(V)2/3 with other collocated equipment and/or topside design changes may be needed to the various ship classes.

(U) Performing Activities and Contracts

(U) External Government Activities

None

(U) Contracts and Efforts

Contract Title	Contract Number / Effort	Contractor	Phase
AMDR Integration and Production Support (I&PS)	N00024-19-C-5501 / 6	Raytheon Company	Production

(U) Contract and Effort Identification, Price, Quantity and Performance			
Contract Number:	N00024-19-C-5501	**Order Number:**	-
Contract Title:	AMDR Integration and Production Support (I&PS)	**Strategy:**	-
CAGE:	70U39 - Raytheon Company	**Contracting Office:**	-
City, State/Province:	Marlborough, MA		
Effort Number:	6	**Supported Phase:**	Production
Type:	Cost Plus Fixed Fee	**Award Date:**	December 8, 2018
Latest Modification Date:	March 21, 2024	**Definitization Date:**	December 18, 2018
Latest Modification No.:	P00073	**Work Start Date:**	December 8, 2018
Technical Data Rights:	-		
Notes:	1. The program will not be collecting EVM data on the I&PS contract because it is exclusively level of effort. The program will collect monthly cost data on planned and actual dollars and hours by tasking to assess and manage Contractor performance. 2. The table above reflects incremental funding for exercised options. Contract includes options that were extended through FY 2024.		

Initial Price (TY$M) Target	Initial Price (TY$M) Ceiling	Current Price (TY$M) Target	Current Price (TY$M) Ceiling	Est. Price at Completion (TY$M) Contractor	Est. Price at Completion (TY$M) PM	Initial Quantity	Current Quantity	Delivered Quantity
-	-	360.7	360.7	-	-	-	-	-

(U) Air and Missile Defense Backfit - AN/SPY-6(V)4 Subprogram

(U) External Government Activities

None

(U) Contracts and Efforts

Contract Title	Contract Number / Effort	Contractor	Phase
AMDR Backfit HP&S Increment 1 Effort 1	N00024-22-C-5500 / 1	Raytheon Company	Production

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

Contract Number:	N00024-22-C-5500	**Order Number:**	-
Contract Title:	AMDR Backfit HP&S Increment 1 Effort 1	**Strategy:**	-
CAGE:	70U39 - Raytheon Company	**Contracting Office:**	SEA 02
City, State/Province:	Marlborough, MA		
Effort Number:	1	**Supported Phase:**	Production
Type:	Fixed-Price Incentive (Firm Target)	**Award Date:**	March 29, 2023
Latest Modification Date:	August 3, 2023	**Definitization Date:**	March 30, 2023
Latest Modification No.:	10	**Work Start Date:**	March 30, 2023
Technical Data Rights:	-		

Notes:

1. IBR to be conducted on November 8, 2023.
2. Data reflects the OY2 efforts on the HP&S contract that include CLIN 2004AA for DDG 91.
3. EVM table based on IPMR delivered 23 February 2024 and reflects performance through 31 January 2024. Month-end January, 2024 is the most recent Hardware, Procurement and Support contract EV data available given RTX has requested and granted CDRL relief to their A047 IPMDAR data for month end January, 2024 while they work to create their Baseline for OY2 CLINS.

Initial Price (TY$M) Target / Ceiling		Current Price (TY$M) Target / Ceiling		Est. Price at Completion (TY$M) Contractor / PM		Initial Quantity	Current Quantity	Delivered Quantity
147.9	156.4	147.9	156.4	136.6	136.6	1	1	-

Work Completed (%):	37.50%
Cost Variance (TY$M):	-7.5
Schedule Variance (TY$M):	+22.8

Factors Contributing to Cost Variance and Projected Effects on Program Costs

None

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

None

(U) AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

(U) External Government Activities

None

(U) Contracts and Efforts

Contract Title	Contract Number / Effort	Contractor	Phase
AMDR HP&S Increment 1 Effort 1	N00024-22-C-5500 / 11	Raytheon Company	Production
AMDR HP&S Increment 1 Effort 2	N00024-22-C-5500 / 12	Raytheon Company	Production
AMDR HP&S Increment 1 Effort 3	N00024-22-C-5500 / 13	Raytheon Company	Production
AMDR Low Rate Initial Production (CLIN 0503AA)	N00024-14-C-5315 / 5	Raytheon Company	Production
AMDR Low Rate Initial Production (CLIN 0503AB)	N00024-14-C-5315 / 7	Raytheon Company	Production
AMDR Low Rate Initial Production (CLIN 0503AC)	N00024-14-C-5315 / 8	Raytheon Company	Production
AMDR Low Rate Initial Production (CLIN 0602AA)	N00024-14-C-5315 / 9	Raytheon Company	Production

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

Contract Number:	N00024-22-C-5500	**Order Number:**	-
Contract Title:	AMDR HP&S Increment 1 Effort 1	**Strategy:**	-
CAGE:	70U39 - Raytheon Company	**Contracting Office:**	SEA 02
City, State/Province:	Marlborough, MA		
Effort Number:	11	**Supported Phase:**	Production
Type:	Cost Plus Fixed Fee	**Award Date:**	March 31, 2022
Latest Modification Date:	August 3, 2023	**Definitization Date:**	March 31, 2022
Latest Modification No.:	10	**Work Start Date:**	March 31, 2022
Technical Data Rights:	-		

Notes:

1. IBR was conducted on March 22, 2023 for BY of the HP&S contract.
2. Data reflects the BY efforts on the HP&S contract that include CLIN B0001AA for DDG 135, CLIN B0001AB for DDG 136, CLIN B0001AC for DDG 137, CLIN B0019 for CSEDS and CLIN B0027 for NRE.
3. EVM table based on IPMR delivered 23 February 2024 and reflects performance through 31 January 2024. Month-end January, 2024 is the most recent Hardware, Procurement and Support contract EV data available given RTX has requested and granted CDRL relief to their A047 IPMDAR data for month end January, 2024 while they work to create their Baseline for OY2 CLINS.

Initial Price (TY$M) Target	Initial Price (TY$M) Ceiling	Current Price (TY$M) Target	Current Price (TY$M) Ceiling	Est. Price at Completion (TY$M) Contractor	Est. Price at Completion (TY$M) PM	Initial Quantity	Current Quantity	Delivered Quantity
579.6	615.5	579.6	615.5	605.8	600.6	3	3	-

Work Completed (%): 71.19%

Cost Variance (TY$M): -48.5
Schedule Variance (TY$M): +40.8

Factors Contributing to Cost Variance and Projected Effects on Program Costs

None

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

None

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

Contract Number:	N00024-22-C-5500	**Order Number:**	-
Contract Title:	AMDR HP&S Increment 1 Effort 2	**Strategy:**	-
CAGE:	70U39 - Raytheon Company	**Contracting Office:**	SEA 02
City, State/Province:	Marlborough, MA		
Effort Number:	12	**Supported Phase:**	Production
Type:	Cost Plus Fixed Fee	**Award Date:**	May 23, 2022
Latest Modification Date:	August 3, 2023	**Definitization Date:**	May 23, 2022
Latest Modification No.:	10	**Work Start Date:**	May 23, 2022
Technical Data Rights:	-		

Notes:
1. IBR conducted on March 22, 2023.
2. Data reflects the OY1 efforts on the HP&S contract that include CLIN 1001AA for DDG 138 and CLIN 1001AB for DDG 139.
3. EVM table based on IPMR delivered 23 February 2024 and reflects performance through 31 January 2024. Month-end January, 2024 is the most recent Hardware, Procurement and Support contract EV data available given RTX has requested and granted CDRL relief to their A047 IPMDAR data for month end January, 2024 while they work to create their Baseline for OY2 CLINS.

Initial Price (TY$M) Target / Ceiling		Current Price (TY$M) Target / Ceiling		Est. Price at Completion (TY$M) Contractor / PM		Initial Quantity	Current Quantity	Delivered Quantity
322.5	371.3	322.5	371.3	362.8	357.5	2	2	-

Work Completed (%): 46.55%
Cost Variance (TY$M): -20.8
Schedule Variance (TY$M): +22.0

Factors Contributing to Cost Variance and Projected Effects on Program Costs

None

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

None

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

Contract Number:	N00024-22-C-5500	**Order Number:**	-
Contract Title:	AMDR HP&S Increment 1 Effort 3	**Strategy:**	-
CAGE:	70U39 - Raytheon Company	**Contracting Office:**	SEA 02
City, State/Province:	Marlborough, MA		
Effort Number:	13	**Supported Phase:**	Production
Type:	Cost Plus Fixed Fee	**Award Date:**	March 30, 2023
Latest Modification Date:	August 3, 2023	**Definitization Date:**	March 30, 2023
Latest Modification No.:	10	**Work Start Date:**	March 30, 2023
Technical Data Rights:	-		

Notes:

1. IBR to be conducted on November 8, 2023.
2. Data reflects the OY2 efforts on the HP&S contract that include CLIN 2001AA for DDG 140 and CLIN 2001AB for DDG 141.
3. EVM table based on IPMR delivered 23 February 2024 and reflects performance through 31 January 2024. Month-end January, 2024 is the most recent Hardware, Procurement and Support contract EV data available given RTX has requested and granted CDRL relief to their A047 IPMDAR data for month end January, 2024 while they work to create their Baseline for OY2 CLINS.

Initial Price (TY$M) Target / Ceiling		Current Price (TY$M) Target / Ceiling		Est. Price at Completion (TY$M) Contractor / PM		Initial Quantity	Current Quantity	Delivered Quantity
383.5	405.5	383.5	405.5	401.4	389.7	2	2	-

Work Completed (%):	26.27%
Cost Variance (TY$M):	+3.9
Schedule Variance (TY$M):	+11.2

Factors Contributing to Cost Variance and Projected Effects on Program Costs

None

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

None

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

Contract Number:	N00024-14-C-5315	**Order Number:**	-
Contract Title:	AMDR Low Rate Initial Production (CLIN 0503AA)	**Strategy:**	-
CAGE:	70U39 - Raytheon Company	**Contracting Office:**	SEA 02
City, State/Province:	Marlborough, MA		
Effort Number:	5	**Supported Phase:**	Production
Type:	Cost Plus Fixed Fee	**Award Date:**	March 14, 2019
Latest Modification Date:	September 21, 2023	**Definitization Date:**	March 14, 2019
Latest Modification No.:	110	**Work Start Date:**	March 14, 2019

Technical Data Rights: -

Notes:
1. On 14 MAR 2019 Excercised LRP option (CLIN0503AA): $123,320,400.
2. IBR conducted on 22 Oct 2019 for LRIP units 5 through 7.
3. EVM table based on IPMR delivered 15 March 2024 and reflects performance through 29 February 2024.

Initial Price (TY$M) Target / Ceiling		Current Price (TY$M) Target / Ceiling		Est. Price at Completion (TY$M) Contractor / PM		Initial Quantity	Current Quantity	Delivered Quantity
123.3	137.0	123.3	137.0	137.0	137.0	1	1	-

Work Completed (%): 99.82%

Cost Variance (TY$M): -32.1

Schedule Variance (TY$M): -0.2

Factors Contributing to Cost Variance and Projected Effects on Program Costs

None

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

None

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

Contract Number:	N00024-14-C-5315	**Order Number:**	-
Contract Title:	AMDR Low Rate Initial Production (CLIN 0503AB)	**Strategy:**	-
CAGE:	70U39 - Raytheon Company	**Contracting Office:**	SEA 02
City, State/Province:	Marlborough, MA		
Effort Number:	7	**Supported Phase:**	Production
Type:	Cost Plus Fixed Fee	**Award Date:**	March 14, 2019
Latest Modification Date:	September 21, 2023	**Definitization Date:**	March 14, 2019
Latest Modification No.:	110	**Work Start Date:**	March 14, 2019

Technical Data Rights: -

Notes:
1. On 14 MAR 2019 Exercised LRIP option (CLIN0503AB): $122,672,151.
2. IBR conducted on 22 Oct 2019 for LRIP units 5 through 7.
3. EVM table based on IPMR delivered 15 March 2024 and reflects performance through 29 February 2024.
4. Despite the contract being awarded on 11 MAR 2019, the initial LRIP option which included the initial funding increment was not provided until three days later on 14 MAR 2019 (definitization date).

Initial Price (TY$M) Target / Ceiling		Current Price (TY$M) Target / Ceiling		Est. Price at Completion (TY$M) Contractor / PM		Initial Quantity	Current Quantity	Delivered Quantity
122.7	136.3	122.7	136.3	136.3	136.3	1	1	-

Work Completed (%): 98.80%

Cost Variance (TY$M): -31.4

Schedule Variance (TY$M): -1.4

Factors Contributing to Cost Variance and Projected Effects on Program Costs

None

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

None

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

Contract Number:	N00024-14-C-5315	**Order Number:**	-
Contract Title:	AMDR Low Rate Initial Production (CLIN 0503AC)	**Strategy:**	-
CAGE:	70U39 - Raytheon Company	**Contracting Office:**	SEA 02
City, State/Province:	Marlborough, MA		
Effort Number:	8	**Supported Phase:**	Production
Type:	Cost Plus Fixed Fee	**Award Date:**	March 14, 2019
Latest Modification Date:	September 21, 2023	**Definitization Date:**	March 14, 2019
Latest Modification No.:	110	**Work Start Date:**	March 14, 2019
Technical Data Rights:	-		

Notes:
1. On March 14, 2019 LRIP option (CLIN0503AC) was exercised: $156,665,464.
2. IBR conducted on October 22, 2019 for LRIP units five through seven.
3. EVM table based on Integrated Program Management Report (IPMR) delivered 15 March 2024 and reflects performance through 29 February 2024.
4. Cost for this shipset reflects a single buy purchase.

Initial Price (TY$M) Target / Ceiling		Current Price (TY$M) Target / Ceiling		Est. Price at Completion (TY$M) Contractor / PM		Initial Quantity	Current Quantity	Delivered Quantity
156.7	174.1	156.7	174.1	173.5	164.7	1	1	-

Work Completed (%): 96.78%

Cost Variance (TY$M): -13.3

Schedule Variance (TY$M): -4.4

Factors Contributing to Cost Variance and Projected Effects on Program Costs

Negative Cost Variance of ($13.2M) from CLIN 0503AC due to primarily by price variance increases over plan (DREX, RF Head), and Radio Frequency (RF) Head Advanced Process Center (APC) Circulators IOT driven by higher cost per wafer, lower yield, and unfavorable assembly allowance.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

Negative Schedule Variance of ($4.4M) for CLIN 0503AC due to positive cumulative schedule burn down for early receipt of material (DREXs).

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

Contract Number:	N00024-14-C-5315	**Order Number:**	-

Contract Title:	AMDR Low Rate Initial Production (CLIN 0602AA)	**Strategy:**	-
CAGE:	70U39 - Raytheon Company	**Contracting Office:**	SEA 02
City, State/Province:	Marlborough, MA		
Effort Number:	9	**Supported Phase:**	Production
Type:	Cost Plus Fixed Fee	**Award Date:**	December 20, 2019
Latest Modification Date:	September 21, 2023	**Definitization Date:**	December 20, 2019
Latest Modification No.:	110	**Work Start Date:**	December 20, 2019
Technical Data Rights:	-		

Notes:
1. On 20 DEC 2019 AMDR exercised contract options for two LRIP units and associated nonrecurring engineering.
2. IBR conducted on 19 Nov 2020 for LRIP units 8 and 9.
3. EVM table based on IPMR delivered 15 March 2024 and reflects performance through 29 February 2024.

Initial Price (TY$M) Target / Ceiling		Current Price (TY$M) Target / Ceiling		Est. Price at Completion (TY$M) Contractor / PM		Initial Quantity	Current Quantity	Delivered Quantity
125.2	139.1	125.2	139.1	139.1	139.1	1	1	-

Work Completed (%):	96.57%
Cost Variance (TY$M):	-32.6
Schedule Variance (TY$M):	-3.8

Factors Contributing to Cost Variance and Projected Effects on Program Costs

Negative Cost Variance of ($32.6M) for CLIN 0602AA is driven mainly by material price variances over bid (DREXs, RF Head) and performance update (RF Head, DC to DC Converters).

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

Negative Schedule Variance of ($3.8M) for CLIN 0602AA driven by material distribution (pegging) off of the shipset (DC to DC Converters) and positive cumulative schedule burn down for early receipt material (Mechanical Structure, Radome/Radiator).

(U) AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

(U) External Government Activities

None

(U) Contracts and Efforts

Contract Title	Contract Number / Effort	Contractor	Phase
EASR Rotating Radar HP&S Effort 1	N00024-22-C-5500 / 5	Raytheon Company	Production

EASR Rotating Radar HP&S Effort 2	N00024-22-C-5500 / 6	Raytheon Company	Production

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

Contract Number:	N00024-22-C-5500	**Order Number:**	-
Contract Title:	EASR Rotating Radar HP&S Effort 1	**Strategy:**	-
CAGE:	70U39 - Raytheon Company	**Contracting Office:**	SEA 02
City, State/Province:	Marlborough, MA		
Effort Number:	5	**Supported Phase:**	Production
Type:	Cost Plus Fixed Fee	**Award Date:**	May 23, 2022
Latest Modification Date:	August 3, 2023	**Definitization Date:**	May 23, 2022
Latest Modification No.:	10	**Work Start Date:**	May 23, 2022
Technical Data Rights:	-		

Notes:

1. IBR to be conducted on November 8, 2023.
2. Data reflects the OY2 efforts on the HP&S contract that include CLIN 2002AA for LHA 10 and CLIN 2002AB for LPD 32.
3. EVM table based on IPMR delivered 23 February 2024 and reflects performance through 31 January 2024. Month-end January, 2024 is the most recent Hardware, Procurement and Support contract EV data available given RTX has requested and granted CDRL relief to their A047 IPMDAR data for month end January, 2024 while they work to create their Baseline for OY2 CLINS.

Initial Price (TY$M) Target	Initial Price (TY$M) Ceiling	Current Price (TY$M) Target	Current Price (TY$M) Ceiling	Est. Price at Completion (TY$M) Contractor	Est. Price at Completion (TY$M) PM	Initial Quantity	Current Quantity	Delivered Quantity
35.7	38.9	35.7	38.9	38.9	38.9	2	2	-

Work Completed (%):	67.31%
Cost Variance (TY$M):	-9.0
Schedule Variance (TY$M):	+1.5

Factors Contributing to Cost Variance and Projected Effects on Program Costs

None

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

None

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

Contract Number:	N00024-22-C-5500	**Order Number:**	-
Contract Title:	EASR Rotating Radar HP&S Effort 2	**Strategy:**	-
CAGE:	70U39 - Raytheon Company	**Contracting Office:**	SEA 02
City, State/Province:	Marlborough, MA		
Effort Number:	6	**Supported Phase:**	Production

Type:	Cost Plus Fixed Fee	**Award Date:**	March 30, 2023
Latest Modification Date:	August 3, 2023	**Definitization Date:**	March 30, 2023
Latest Modification No.:	10	**Work Start Date:**	March 30, 2023
Technical Data Rights:	-		

Notes:

1. IBR to be conducted on November 8, 2023.
2. Data reflects the OY2 efforts on the HP&S contract that include CLIN 2002AA for LHA 10 and CLIN 2002AB for LPD 32.
3. EVM table based on IPMR delivered 23 February 2024 and reflects performance through 31 January 2024. Month-end January, 2024 is the most recent Hardware, Procurement and Support contract EV data available given RTX has requested and granted CDRL relief to their A047 IPMDAR data for month end January, 2024 while they work to create their Baseline for OY2 CLINS.

Initial Price (TY$M) Target / Ceiling		Current Price (TY$M) Target / Ceiling		Est. Price at Completion (TY$M) Contractor / PM		Initial Quantity	Current Quantity	Delivered Quantity
35.4	38.6	35.4	38.6	38.6	38.6	2	2	-

Work Completed (%):	25.76%
Cost Variance (TY$M):	-4.9
Schedule Variance (TY$M):	+2.6

Factors Contributing to Cost Variance and Projected Effects on Program Costs

None

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

None

(U) AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

(U) External Government Activities

None

(U) Contracts and Efforts

Contract Title	Contract Number / Effort	Contractor	Phase
EASR Fixed Face HP&S Increment 1 Effort 1	N00024-22-C-5500 / 3	Raytheon Company	Production
EASR Fixed Face HP&S Increment 1 Effort 2	N00024-22-C-5500 / 4	Raytheon Company	Production
EASR Fixed Face HP&S Increment 1 Effort 3	N00024-22-C-5500 / 5	Raytheon Company	Production

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

Contract Number:	N00024-22-C-5500	**Order Number:**	-
Contract Title:	EASR Fixed Face HP&S Increment 1 Effort 1	**Strategy:**	-
CAGE:	70U39 - Raytheon Company	**Contracting Office:**	SEA 02
City, State/Province:	Marlborough, MA		
Effort Number:	3	**Supported Phase:**	Production
Type:	Cost Plus Fixed Fee	**Award Date:**	March 31, 2022
Latest Modification Date:	August 4, 2023	**Definitization Date:**	March 31, 2022
Latest Modification No.:	10	**Work Start Date:**	March 31, 2022
Technical Data Rights:	-		

Notes:

1. IBR conducted on March 22, 2023.
2. Data reflects the BY efforts on the HP&S contract that include CLIN B0003AA for CVN 80 and CLIN B0003AB for FFG 63.
3. EVM table based on IPMR delivered 23 February 2024 and reflects performance through 31 January 2024. Month-end January, 2024 is the most recent Hardware, Procurement and Support contract EV data available given RTX has requested and granted CDRL relief to their A047 IPMDAR data for month end January, 2024 while they work to create their Baseline for OY2 CLINS.

Initial Price (TY$M) Target	Initial Price (TY$M) Ceiling	Current Price (TY$M) Target	Current Price (TY$M) Ceiling	Est. Price at Completion (TY$M) Contractor	Est. Price at Completion (TY$M) PM	Initial Quantity	Current Quantity	Delivered Quantity
71.2	77.7	71.2	77.7	77.7	77.7	2	2	-

Work Completed (%):	68.19%
Cost Variance (TY$M):	-24.7
Schedule Variance (TY$M):	-3.3

Factors Contributing to Cost Variance and Projected Effects on Program Costs

None

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

None

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

Contract Number:	N00024-22-C-5500	**Order Number:**	-
Contract Title:	EASR Fixed Face HP&S Increment 1 Effort 2	**Strategy:**	-
CAGE:	70U39 - Raytheon Company	**Contracting Office:**	SEA 02
City, State/Province:	Marlborough, MA		
Effort Number:	4	**Supported Phase:**	Production
Type:	Cost Plus Fixed Fee	**Award Date:**	May 23, 2022
Latest Modification Date:	August 3, 2023	**Definitization Date:**	March 31, 2023
Latest Modification No.:	10	**Work Start Date:**	March 31, 2023

Technical Data Rights: -

Notes:
1. IBR conducted on March 22, 2023.
2. Data reflects the OY1 efforts on the HP&S contract that include CLIN 1003AA for FFG 64.
3. EVM table based on IPMR delivered 23 February 2024 and reflects performance through 31 January 2024. Month-end January, 2024 is the most recent Hardware, Procurement and Support contract EV data available given RTX has requested and granted CDRL relief to their A047 IPMDAR data for month end January, 2024 while they work to create their Baseline for OY2 CLINS.

Initial Price (TY$M) Target / Ceiling		Current Price (TY$M) Target / Ceiling		Est. Price at Completion (TY$M) Contractor / PM		Initial Quantity	Current Quantity	Delivered Quantity
37.4	40.8	37.4	40.8	40.8	40.8	1	1	-

Work Completed (%): 130.15%

Cost Variance (TY$M): -24.7

Schedule Variance (TY$M): +28.9

Factors Contributing to Cost Variance and Projected Effects on Program Costs

None

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

None

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

Contract Number:	N00024-22-C-5500	**Order Number:**	-
Contract Title:	EASR Fixed Face HP&S Increment 1 Effort 3	**Strategy:**	-
CAGE:	70U39 - Raytheon Company	**Contracting Office:**	SEA 02
City, State/Province:	Marlborough, MA		
Effort Number:	5	**Supported Phase:**	Production
Type:	Cost Plus Fixed Fee	**Award Date:**	March 30, 2023
Latest Modification Date:	August 3, 2023	**Definitization Date:**	March 30, 2023
Latest Modification No.:	10	**Work Start Date:**	March 30, 2023

Technical Data Rights: -

Notes:
1. IBR to be conducted on November 8, 2023.
2. Data reflects the OY1 efforts on the HP&S contract that include CLIN 2003AA for FFG 65.
3. EVM table based on IPMR delivered 23 February 2024 and reflects performance through 31 January 2024. Month-end January, 2024 is the most recent Hardware, Procurement and Support contract EV data available given RTX has requested and granted CDRL relief to their A047 IPMDAR data for month end January, 2024 while they work to create their Baseline for OY2 CLINS.

Initial Price (TY$M) Target / Ceiling		Current Price (TY$M) Target / Ceiling		Est. Price at Completion (TY$M) Contractor / PM		Initial Quantity	Current Quantity	Delivered Quantity
52.5	55.5	52.5	55.5	55.5	54.6	1	1	-

Work Completed (%):	191.72%
Cost Variance (TY$M):	-1.2
Schedule Variance (TY$M):	+7.6

Factors Contributing to Cost Variance and Projected Effects on Program Costs

None

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

None

(U) Production

(U) Air and Missile Defense Backfit - AN/SPY-6(V)4 Subprogram

No Data

(U) AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

(U) Low-Rate Initial Production

	Original LRIP Determination	Current LRIP Determination
Total LRIP Quantity	16	30
Date	10/4/2013	7/20/2023
Reference	Milestone B ADM	Air and Missile Defense Radar ADM AN-SPY-6(V) Subprogram LRIP Quantities
LRIP Period	FY 2016 - 2024	FY 2016 - 2024
Total Procurement Quantity	16	30
LRIP Percentage of Total	100.0%	100.0%

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

The Current Total LRIP Quantity is more than 10% of the total production quantity due to timing of Initial Operational Test and Evaluation, IOC, and the need to meet the shipbuilding plan. The Air and Missile Defense Radar ADM AN-SPY-6(V)1 Subprogram LRIP Quantities dated July 7, 2023 included approval for a planned LRIP quantity not to exceed 30 units.

LRIP Notes

AMDR FoR LRIP agreement established 10/4/2013 did not include quantities for (V)2 EASR and (V)3 EASR FF.

(U) AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

No Data

(U) AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

No Data

(U) Deliveries and Expenditures

(U) Air and Missile Defense Backfit - AN/SPY-6(V)4 Subprogram

(U) Acquisition Funding

	Total Estimate	Actual to Date	Actual, Percent Complete
Years Appropriated	22	4	18.2%
Appropriations (TY, $M)	6,547.9	374.8	5.7%
Expenditures (TY, $M)	6,547.9	89.7	1.4%

(U) End Items Delivered

	Total Required	Planned to Date	Actual to Date	Actual, Percent Complete
Procurement	25			
Total	**25**	-	-	-

Notes

None

(U) AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

(U) Acquisition Funding

	Total Estimate	Actual to Date	Actual, Percent Complete
Years Appropriated	25	19	76.0%
Appropriations (TY, $M)	8,720.0	5,870.6	67.3%
Expenditures (TY, $M)	8,720.0	4,559.7	52.3%

(U) End Items Delivered

	Total Required	Planned to Date	Actual to Date	Actual, Percent Complete
Procurement	30			
AN/SPY-6(V)1		7	7	

	Total Required	Planned to Date	Actual to Date	Actual, Percent Complete
Total	**30**	**7**	**7**	**23.3%**

Notes

None

(U) AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

(U) Acquisition Funding

	Total Estimate	Actual to Date	Actual, Percent Complete
Years Appropriated	17	10	58.8%
Appropriations (TY, $M)	898.1	519.4	57.8%
Expenditures (TY, $M)	898.1	276.2	30.7%

(U) End Items Delivered

	Total Required	Planned to Date	Actual to Date	Actual, Percent Complete
Procurement	15			
AN/SPY-6(V)2		4	4	
Total	**15**	**4**	**4**	**26.7%**

Notes

None

(U) AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

(U) Acquisition Funding

	Total Estimate	Actual to Date	Actual, Percent Complete
Years Appropriated	22	10	45.5%
Appropriations (TY, $M)	2,319.2	742.2	32.0%

Expenditures (TY, $M)	2,319.2	391.1	16.9%

(U) End Items Delivered

	Total Required	Planned to Date	Actual to Date	Actual, Percent Complete
Procurement	25			
AN/SPY-6(V)3		2	2	
Total	**25**	**2**	**2**	**8.0%**

Notes

None

(U) International Program Aspects

General Memo

None

Exportability and Business Issues

No issues.

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

Program Protection: Technology Security and Foreign Disclosure Issues

- TTSARB policy exists, however a new TTSARB that replaces stale existing policy is done and in coordination by NIPO prior to TTSARB vote this summer.
- We think we're in good shape overall; TSC engagement will be required for specific releasability aspects.
- Assuming the program's current program protection design is implemented when have the first case, the NRE cost risk is low-medium until tested.

(U) Agreements

No International Agreements have been defined for AMDR FoR

(U) Air and Missile Defense Backfit - AN/SPY-6(V)4 Subprogram

General Memo

None

Exportability and Business Issues

No issues.

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

Program Protection: Technology Security and Foreign Disclosure Issues

No issues.

(U) Agreements

No International Agreements have been defined for AMDR Backfit - AN/SPY-6(V)4

(U) AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

General Memo

None

Exportability and Business Issues

No issues.

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

Program Protection: Technology Security and Foreign Disclosure Issues

- TTSARB policy exists, however a new TTSARB that replaces stale existing policy is done and in coordination by NIPO prior to TTSARB vote this summer.
- We think we're in good shape overall; TSC engagement will be required for specific releasability aspects.
- Assuming the program's current program protection design is implemented when have the first case, the NRE cost risk is low-medium until tested.

(U) Agreements

Activity Date	Type	Agreement Number	International Partner(s)	Quantity	Funding (TY$M)
10/1/2013	ICPA	N-05-0042	Australia (AT)	-	-

(U) Agreement Information			
Partner(s):	Australia (AT)	**Activity Date:**	10/1/2013
Type:	International Cooperative Project Agreement/Arrangement	**Agreement Number:**	N-05-0042
Notes:	Australia/US Phased Array Radar (AUSPAR) Project Arrangement (PA) extended 18 months in October 2013. International Cooperation (IC). AUSPAR Project completed on 31 Mar 2015.		

Australia (AT)

Fiscal Year	Funding (TY$M)	Quantity
Total	-	-

(U) AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

General Memo

None

Exportability and Business Issues

No issues.

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

Program Protection: Technology Security and Foreign Disclosure Issues

No issues.

(U) Agreements

No International Agreements have been defined for EASR Rotating Radar - AN/SPY-6(V)2

(U) AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

General Memo

None

Exportability and Business Issues

No issues.

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

Program Protection: Technology Security and Foreign Disclosure Issues

No issues.

(U) Agreements

No International Agreements have been defined for EASR FF - AN/SPY-6(V)3

Modernized
Selected Acquisition Report
Supplement

Air and Missile Defense Radar Family of Radars
(AMDR FoR)

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

MSAR Supplement Sections

Program Description

Program Use of the Adaptive Acquistion 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
Air and Missile Defense Radar Family of Radars

Short Name
AMDR FoR

PNO
384

Lead Component
Navy

AAF Pathway
MCA

Acquisition Type
MDAP

Acquired Systems

Subprograms

Full Name	Short Name	Acquired Systems
AN/SPY-6(V)1 Air and Missile Defense Radar	AMDR	AN/SPY-6(V)1
AN/SPY-6(V)2 Enterprise Air Surveillance Radar	EASR Rotating Radar	AN/SPY-6(V)2
AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face	EASR FF	AN/SPY-6(V)3
AN/SPY-6(V)4	AN/SPY-6(V)4	AN/SPY-6(V)4

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

AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

Major Software Efforts

Title	Status	Fielding Date	Description

Major Engineering Changes

Title	Original Need Date	Fielding Date	Description, Rationale and Program Impacts
HP&S UPS Re-Design		Sep 2024	The SPY-6(V)1 LRIP UPS is being re-designed on the HP&S contract. The first production unit will be UPS shipset 8, which aligns with DDG-134. Fielding date is the projected date the first production unit will be ready.

Technologies and Systems Engineering

AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

Major Software Efforts

Title	Status	Fielding Date	Description

Major Engineering Changes

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

Technologies and Systems Engineering

AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

Major Software Efforts

Title	Status	Fielding Date	Description

Major Engineering Changes

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

Technologies and Systems Engineering

AN/SPY-6(V)4 Subprogram

Major Software Efforts

Title	Status	Fielding Date	Description
SPY-6 Epic 2	Development	Nov 2028	Initial software baseline to deliver anti-air, surface, ballistic missile defense, and integrated air and missile defense capabilties to flight IIA

Major Engineering Changes

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

Funding Sources (Acquisition)

Acquisition Funding Notes

AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
RDT&E	1319N	05	0604501N - Advanced Above Water Sensors	0604501N	3186 - Air and Missile Defense Radar	x	x
RDT&E	1319N	05	0604522N - Air and Missile Defense Radar (AMDR) System	0604522N	3186 - Air and Missile Defense Radar	x	
RDT&E	1319N	05	0604307N - Surface Combatant Combat System Engineering	0604307N	3044 - Solid State/Spy Radar	x	x
RDT&E	1319N	04	0603513N - Shipboard System Component Development	0603513N	4019 - Radar Upgrades	x	x
Procurement	1611N	02	2122 - DDG-51	0204222N	-	x	
MILCON	1205N	XX	OTHER - Other or New 1205N Line Item	XXX	XXX - --		x
Note: BA: 01 PE: 0805376N - Advanced Radar Detection Laboratory MILCON Project: P422							

Funding Sources (Acquisition)

Acquisition Funding Notes

AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
RDT&E	1319N	05	0604501N - Advanced Above Water Sensors	0604501N	3236 - Advanced Radar Technology	x	x
RDT&E	1319N	05	0604522N - Air and Missile Defense Radar (AMDR) System	0604522N	3186 - Air and Missile Defense Radar	x	
Procurement	1611N	02	2086 - CVN Refueling Overhauls	0204112N	-	x	
Procurement	1611N	03	3041 - LHA Replacement	0204411N	-	x	
Procurement	1611N	03	3036 - LPD-17	0204411N	-	x	x
Procurement	1611N	03	3010 - LPD Flight II	0204411N	-	x	

Funding Sources (Acquisition)

Acquisition Funding Notes

AN/SPY-6(V)4 Subprogram

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
RDT&E	1319N	05	0604522N - Air and Missile Defense Radar (AMDR) System	0604522N	3186 - Air and Missile Defense Radar	x	
Procurement	1810N	01	0110 - LM-2500 Gas Turbine	0204228N	-		

Funding Sources (Acquisition)

Acquisition Funding Notes

AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
RDT&E	1319N	05	0604501N - Advanced Above Water Sensors	0604501N	3236 - Advanced Radar Technology	x	x
RDT&E	1319N	05	0604522N - Air and Missile Defense Radar (AMDR) System	0604522N	3186 - Air and Missile Defense Radar	x	
Procurement	1611N	02	2001 - Carrier Replacement Program	0204112N	-		
Procurement	1611N	02	2128 - FFG-Frigate	0204224N	-		

Funding Sources (Operating and Support)

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

Operating and Support Funding Notes

AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
O&M	1804N	01	1C1C - Combat Communications and Electronic Warfare	0702228N	-		

Funding Sources (Operating and Support)

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

Operating and Support Funding Notes

AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
O&M	1804N	01	1C1C - Combat Communications and Electronic Warfare	0702228N	-		

Funding Sources (Operating and Support)

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

Operating and Support Funding Notes

AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
O&M	1804N	01	1C1C - Combat Communications and Electronic Warfare	0702228N	-		

Funding Sources (Operating and Support)

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

Operating and Support Funding Notes

AN/SPY-6(V)4 Subprogram

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
O&M	1804N	01	1C1C - Combat Communications and Electronic Warfare	0702228N	-		

Acquisition Estimate and Quantity Summary

AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

Acquisiton Estimates

Category PB 2025	TY ($M)	Current Base Year CY2013 ($M)	Original Base Year CY2013 ($M)	Report Fiscal Year CY2024 ($M)
RDT&E	1,907.4	1,817.8	1,817.8	2,395.6
Procurement	6,785.1	4,815.3	4,815.3	6,346.0
MILCON	27.5	28.6	28.6	37.7
O&M	-	-	-	-
Total Acquisition	8,720.0	6,661.7	6,661.7	8,779.3
PAUC	290.668	222.058	222.058	292.643
APUC	226.171	160.511	160.511	211.533

Acquisiton End-Item Quantities

System PB 2025	Development	Procurement
AN/SPY-6(V)1	-	30
Total	**-**	**30**

Unit Description

AN/SPY-6(V)1 will provide multi-mission capabilities, simultaneously supporting both long range, exoatmospheric detection, tracking and discrimination of ballistic missiles, as well as Area and Self Defense against air and surface threats. For the Ballistic Missile Defense (BMD) capability, increased radar sensitivity and bandwidth over current radar systems are needed to detect, track and support engagements of advanced ballistic missile threats at the required ranges, concurrent with Area and Self Defense against Air and Surface threats. For the Area Air Defense and Self Defense capability, increased sensitivity and clutter capabilities are needed to detect, react to, and engage stressing Very Low Observable/Very Low Flyer (VLO/VLF) threats in the presence of heavy land, sea, and rain clutter.

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

Appropriation	Prior	2024	2025	2026	2027	2028	2029	To Complete	Total
RDT&E	1,759.6	35.9	39.5	21.1	21.6	19.2	10.5	-	1,907.4
Procurement	3,561.7	486.1	481.6	481.1	243.3	497.6	507.7	526.1	6,785.1
MILCON	27.5	-	-	-	-	-	-	-	27.5
O&M	-	-	-	-	-	-	-	-	-
PB 2025 Total	**5,348.7**	**521.9**	**521.1**	**502.2**	**264.9**	**516.9**	**518.2**	**526.1**	**8,720.0**

Acquisition Estimate and Quantity Summary

AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

Acquisiton Estimates

		Current Base Year	Original Base Year	Report Fiscal Year
Category **PB 2025**	**TY ($M)**	**CY2013 ($M)**	**CY2013 ($M)**	**CY2024 ($M)**
RDT&E	177.9	146.3	146.3	192.8
Procurement	748.3	507.0	507.0	668.1
MILCON	-	-	-	-
O&M	-	-	-	-
Total Acquisition	926.2	653.3	653.3	860.9
PAUC	61.750	43.551	43.551	57.395
APUC	49.888	33.798	33.798	44.541

Acquisiton End-Item Quantities

System PB 2025	Development	Procurement
AN/SPY-6(V)2	-	15
Total	**-**	**15**

Unit Description

AN/SPY-6(V)2 (Enterprise Air Surveillance Radar (EASR) will provide multi-mission capabilities, simultaneously supporting Air Traffic Control (ATC), situational awareness, and ship self-defense against Air and Surface threats. For these missions, increased clutter capability, short-range detection and tracking, and special weather waveforms are needed. AN/SPY-6(V)3 is the primary air surveillance radar supporting ship self-defense, situational awareness and Air Traffic Control (ATC) for Ford class Carriers. For other ship classes, AN/SPY-6(V)2 is the primary radar for self-defense and situational awareness with the ancillary role of supporting ATC by resolving SPN-50 mast blockage for ATC.

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

Appropriation	Prior	2024	2025	2026	2027	2028	2029	To Complete	Total
RDT&E	124.2	14.4	12.1	8.1	8.2	6.4	4.5	-	177.9
Procurement	364.1	37.0	47.7	1.6	1.6	55.7	62.8	177.7	748.3
MILCON	-	-	-	-	-	-	-	-	-
O&M	-	-	-	-	-	-	-	-	-
PB 2025 Total	**488.3**	**51.4**	**59.9**	**9.7**	**9.9**	**62.1**	**67.3**	**177.7**	**926.2**

Acquisition Estimate and Quantity Summary

AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

Acquisiton Estimates

		Current Base Year	Original Base Year	Report Fiscal Year
Category **PB 2025**	**TY ($M)**	**CY2013 ($M)**	**CY2013 ($M)**	**CY2024 ($M)**
RDT&E	266.1	213.9	213.9	281.9
Procurement	2,053.1	1,235.8	1,235.8	1,628.6
MILCON	-	-	-	-
O&M	-	-	-	-
Total Acquisition	2,319.2	1,449.7	1,449.7	1,910.5
PAUC	92.770	57.987	57.987	76.420
APUC	82.124	49.431	49.431	65.144

Acquisiton End-Item Quantities

System PB 2025	Development	Procurement
AN/SPY-6(V)3	-	25
Total	**-**	**25.0**

Unit Description

AN/SPY-6(V)3 (Enterprise Air Surveillance Radar (EASR) will provide multi-mission capabilities, simultaneously supporting Air Traffic Control (ATC), situational awareness, and ship self-defense against Air and Surface threats. For these missions, increased clutter capability, short-range detection and tracking, and special weather waveforms are needed. AN/SPY-6(V)3 is the primary air surveillance radar supporting ship self-defense, situational awareness and Air Traffic Control (ATC) for Ford class Carriers. For other ship classes, AN/SPY-6(V)2 is the primary radar for self-defense and situational awareness with the ancillary role of supporting ATC by resolving SPN-50 mast blockage for ATC.

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

Appropriation	Prior	2024	2025	2026	2027	2028	2029	To Complete	Total
RDT&E	172.3	26.5	20.8	14.0	13.8	11.8	6.8	-	266.1
Procurement	399.8	143.6	74.4	343.8	77.3	143.4	80.4	790.4	2,053.1
MILCON	-	-	-	-	-	-	-	-	-
O&M	-	-	-	-	-	-	-	-	-
PB 2025 Total	**572.1**	**170.1**	**95.3**	**357.8**	**91.1**	**155.3**	**87.2**	**790.4**	**2,319.2**

Acquisition Estimate and Quantity Summary

AN/SPY-6(V)4 Subprogram

Acquisiton Estimates

		Current Base Year	Original Base Year	Report Fiscal Year
Category	**TY ($M)**	**CY2013 ($M)**	**CY2013 ($M)**	**CY2024 ($M)**
RDT&E	139.7	100.2	100.2	132.0
Procurement	6,408.2	4,095.6	4,095.6	5,397.5
MILCON	-	-	-	-
O&M	-	-	-	-
Total Acquisition	6,547.9	4,195.8	4,195.8	5,529.5
PAUC	261.916	167.832	167.832	221.181
APUC	256.327	163.825	163.825	215.901

Acquisiton End-Item Quantities

System	Development	Procurement
AN/SPY-6(V)4	-	25
Total	**-**	**25.0**

Unit Description

AN/SPY-6(V)4 will provide Active Electronically-Steered Array (AESA) and digital beamforming technology for backfit to Flight IIA DDG. Backfit of SPY-6 technology on DDG 51 FLT IIA commences with non-recurring engineering efforts to scale the radar hardware and software; perform modeling and simulation to update the Concept of Operations (CONOPS), and enable SPY-6 Integrated Air and Missile Defense (IAMD) performance capabilities on FLT IIA DDGs.

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

Appropriation	Prior	2024	2025	2026	2027	2028	2029	To Complete	Total
RDT&E	17.6	13.2	39.9	20.4	19.4	19.2	8.1	1.9	139.7
Procurement	173.5	170.5	341.3	411.3	418.5	487.1	499.2	3,906.8	6,408.2
MILCON	-	-	-	-	-	-	-	-	-
O&M	-	-	-	-	-	-	-	-	-
PB 2025 Total	**191.1**	**183.6**	**381.2**	**431.6**	**437.9**	**506.4**	**507.4**	**3,908.7**	**6,547.9**

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

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

1319N - Research, Development, Test & Eval, Navy					
fiscal year		Other/ Unallocated	Total TY($M)	Weighted Rate	Total CY2013 ($M)
Total		**1,907.4**	**1,907.4**	**-**	**1,817.8**
2006		10.890	10.9	0.898409	12.1
2007		35.300	35.3	0.920414	38.4
2008		92.920	92.9	0.937204	99.1
2009		92.485	92.5	0.949238	97.4
2010		164.870	164.9	0.963476	171.1
2011		204.159	204.2	0.986481	207.0
2012		138.750	138.8	1.002842	138.4
2013		193.947	193.9	1.013372	191.4
2014		112.658	112.7	1.027691	109.6
2015		126.336	126.3	1.040622	121.4
2016		227.051	227.1	1.059936	214.2
2017		142.338	142.3	1.079768	131.8
2018		49.618	49.6	1.106216	44.9
2019		24.502	24.5	1.127521	21.7
2020		23.985	24.0	1.168985	20.5
2021		37.850	37.9	1.221524	31.0
2022		37.115	37.1	1.285339	28.9
2023		44.802	44.8	1.323604	33.8
2024		35.856	35.9	1.353819	26.5
2025		39.502	39.5	1.382538	28.6
2026		21.082	21.1	1.411571	14.9
2027		21.624	21.6	1.441214	15.0
2028		19.238	19.2	1.471479	13.1
2029		10.510	10.5	1.502380	7.0

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

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

1611N (BLS Hist) - Shipbuilding and Conversion, Navy									
fiscal year	End Item Recurring Flyaway	Non-End Item Recurring Flyaway	Non-Recurring Flyaway	Initial Spares	Depot Activation	Other/ Unallocated	Total TY($M)	Weighted Rate	Total CY2013 ($M)
Total	**6,785.1**	**-**	**-**	**-**	**-**	**-**	**6,785.1**	**-**	**4,815.3**
2006							-	0.850016	-
2007							-	0.889074	-
2008							-	0.919356	-
2009							-	0.947481	-
2010							-	0.980399	-
2011							-	1.012561	-
2012							-	1.035790	-
2013							-	1.057453	-
2014							-	1.078866	-
2015							-	1.103731	-
2016	245.353						245.4	1.131956	216.8
2017	385.849						385.8	1.164427	331.4
2018	211.339						211.3	1.202357	175.8
2019	521.434						521.4	1.247096	418.1
2020	566.786						566.8	1.298484	436.5
2021	446.292						446.3	1.350983	330.3
2022	450.684						450.7	1.398157	322.3
2023	733.916						733.9	1.431057	512.8
2024	486.052						486.1	1.461757	332.5
2025	481.597						481.6	1.492508	322.7
2026	481.104						481.1	1.523851	315.7
2027	243.319						243.3	1.555852	156.4
2028	497.626						497.6	1.588525	313.3
2029	507.736						507.7	1.621884	313.1
2030	526.056						526.1	1.655944	317.7

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

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

1205N - Military Construction, Navy					
fiscal year		Other/ Unallocated	Total TY($M)	Weighted Rate	Total CY2013 ($M)
Total		**27.5**	**27.5**	**-**	**28.6**
2006			-	0.914350	-
2007			-	0.932945	-
2008			-	0.948845	-
2009		27.500	27.5	0.961845	28.6

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

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

1319N - Research, Development, Test & Eval, Navy					
fiscal year		Other/ Unallocated	Total TY($M)	Weighted Rate	Total CY2013 ($M)
Total		**177.9**	**177.9**	**-**	**146.3**
2006			-	0.898409	-
2007			-	0.920414	-
2008			-	0.937204	-
2009			-	0.949238	-
2010			-	0.963476	-
2011			-	0.986481	-
2012			-	1.002842	-
2013			-	1.013372	-
2014			-	1.027691	-
2015		0.295	0.3	1.040622	0.3
2016		10.199	10.2	1.059936	9.6
2017		26.666	26.7	1.079768	24.7
2018		33.613	33.6	1.106216	30.4
2019		11.021	11.0	1.127521	9.8
2020		5.150	5.2	1.168985	4.4
2021		7.027	7.0	1.221524	5.8
2022		16.384	16.4	1.285339	12.7
2023		13.815	13.8	1.323604	10.4
2024		14.383	14.4	1.353819	10.6
2025		12.131	12.1	1.382538	8.8
2026		8.068	8.1	1.411571	5.7
2027		8.229	8.2	1.441214	5.7
2028		6.435	6.4	1.471479	4.4
2029		4.509	4.5	1.502380	3.0

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

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

1611N (BLS Hist) - Shipbuilding and Conversion, Navy									
fiscal year	End Item Recurring Flyaway	Non-End Item Recurring Flyaway	Non-Recurring Flyaway	Initial Spares	Depot Activation	Other/ Unallocated	Total TY($M)	Weighted Rate	Total CY2013 ($M)
Total	**720.2**	**-**	**-**	**-**	**-**	**28.2**	**748.3**	**-**	**507.0**
2006							-	0.850016	-
2007							-	0.889074	-
2008							-	0.919356	-
2009							-	0.947481	-
2010							-	0.980399	-
2011							-	1.012561	-
2012							-	1.035790	-
2013							-	1.057453	-
2014							-	1.078866	-
2015							-	1.103731	-
2016							-	1.131956	-
2017							-	1.164427	-
2018						6.723	6.7	1.202357	5.6
2019						2.204	2.2	1.247096	1.8
2020	192.636					1.030	193.7	1.298484	149.1
2021	-					1.405	1.4	1.350983	1.0
2022	69.462					3.277	72.7	1.398157	52.0
2023	84.600					2.763	87.4	1.431057	61.0
2024	34.150					2.877	37.0	1.461757	25.3
2025	45.308					2.426	47.7	1.492508	32.0
2026	-					1.614	1.6	1.523851	1.1
2027	-					1.646	1.6	1.555852	1.1
2028	54.412					1.287	55.7	1.588525	35.1
2029	61.851					0.902	62.8	1.621884	38.7
2030	-					-	-	1.655944	-
2031	122.654					-	122.7	1.690718	72.5
2032	-					-	-	1.726223	-
2033	-					-	-	1.762474	-
2034	55.095					-	55.1	1.799486	30.6

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

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

1319N - Research, Development, Test & Eval, Navy					
fiscal year		Other/ Unallocated	Total TY($M)	Weighted Rate	Total CY2013 ($M)
Total		**266.1**	**266.1**	**-**	**213.9**
2006			-	0.898409	-
2007			-	0.920414	-
2008			-	0.937204	-
2009			-	0.949238	-
2010			-	0.963476	-
2011			-	0.986481	-
2012			-	1.002842	-
2013			-	1.013372	-
2014			-	1.027691	-
2015		0.295	0.3	1.040622	0.3
2016		10.199	10.2	1.059936	9.6
2017		26.666	26.7	1.079768	24.7
2018		33.613	33.6	1.106216	30.4
2019		20.284	20.3	1.127521	18.0
2020		9.693	9.7	1.168985	8.3
2021		19.917	19.9	1.221524	16.3
2022		25.190	25.2	1.285339	19.6
2023		26.435	26.4	1.323604	20.0
2024		26.535	26.5	1.353819	19.6
2025		20.838	20.8	1.382538	15.1
2026		14.048	14.0	1.411571	10.0
2027		13.826	13.8	1.441214	9.6
2028		11.821	11.8	1.471479	8.0
2029		6.785	6.8	1.502380	4.5

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

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

1611N (BLS Hist) - Shipbuilding and Conversion, Navy									
fiscal year	End Item Recurring Flyaway	Non-End Item Recurring Flyaway	Non-Recurring Flyaway	Initial Spares	Depot Activation	Other/ Unallocated	Total TY($M)	Weighted Rate	Total CY2013 ($M)
Total	**2,053.1**	**-**	**-**	**-**	**-**	**-**	**2,053.1**	**-**	**1,235.8**
2006							-	0.850016	-
2007							-	0.889074	-
2008							-	0.919356	-
2009							-	0.947481	-
2010							-	0.980399	-
2011							-	1.012561	-
2012							-	1.035790	-
2013							-	1.057453	-
2014							-	1.078866	-
2015							-	1.103731	-
2016							-	1.131956	-
2017							-	1.164427	-
2018							-	1.202357	-
2019							-	1.247096	-
2020	151.549						151.5	1.298484	116.7
2021	-						-	1.350983	-
2022	174.396						174.4	1.398157	124.7
2023	73.820						73.8	1.431057	51.6
2024	143.591						143.6	1.461757	98.2
2025	74.415						74.4	1.492508	49.9
2026	343.790						343.8	1.523851	225.6
2027	77.269						77.3	1.555852	49.7
2028	143.445						143.4	1.588525	90.3
2029	80.380						80.4	1.621884	49.6
2030	148.226						148.2	1.655944	89.5
2031	84.423						84.4	1.690718	49.9
2032	-						-	1.726223	-
2033	-						-	1.762474	-
2034	-						-	1.799486	-
2035	-						-	1.837275	-
2036	93.469						93.5	1.875858	49.8
2037	-						-	1.915251	-
2038	-						-	1.955471	-
2039	-						-	1.996536	-
2040	-						-	2.038464	-
2041	102.514						102.5	2.081271	49.3

AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

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

1611N (BLS Hist) - Shipbuilding and Conversion, Navy									
fiscal year	End Item Recurring Flyaway	Non-End Item Recurring Flyaway	Non-Recurring Flyaway	Initial Spares	Depot Activation	Other/ Unallocated	Total TY($M)	Weighted Rate	Total CY2013 ($M)
2042	-						-	2.124978	-
2043	-						-	2.169602	-
2044	-						-	2.215164	-
2045	-						-	2.261683	-
2046	111.560						111.6	2.309178	48.3
2047	-						-	2.357671	-
2048	-						-	2.407182	-
2049	-						-	2.457733	-
2050	-						-	2.509345	-
2051	120.605						120.6	2.562041	47.1
2052	-						-	2.615844	-
2053	-						-	2.670777	-
2054	-						-	2.726863	-
2055	-						-	2.784127	-
2056	129.650						129.7	2.842594	45.6

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

AN/SPY-6(V)4 Subprogram

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

1319N - Research, Development, Test & Eval, Navy					
fiscal year		Other/ Unallocated	Total TY($M)	Weighted Rate	Total CY2013 ($M)
Total		**139.7**	**139.7**	**-**	**100.2**
2006			-	0.898409	-
2007			-	0.920414	-
2008			-	0.937204	-
2009			-	0.949238	-
2010			-	0.963476	-
2011			-	0.986481	-
2012			-	1.002842	-
2013			-	1.013372	-
2014			-	1.027691	-
2015			-	1.040622	-
2016			-	1.059936	-
2017			-	1.079768	-
2018			-	1.106216	-
2019			-	1.127521	-
2020			-	1.168985	-
2021		6.615	6.6	1.221524	5.4
2022		9.848	9.8	1.285339	7.7
2023		1.154	1.2	1.323604	0.9
2024		13.183	13.2	1.353819	9.7
2025		39.899	39.9	1.382538	28.9
2026		20.366	20.4	1.411571	14.4
2027		19.396	19.4	1.441214	13.5
2028		19.228	19.2	1.471479	13.1
2029		8.143	8.1	1.502380	5.4
2030		1.914	1.9	1.533930	1.2

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

AN/SPY-6(V)4 Subprogram

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

1810N - Other Procurement, Navy									
fiscal year	End Item Recurring Flyaway	Non-End Item Recurring Flyaway	Non-Recurring Flyaway	Initial Spares	Depot Activation	Other/ Unallocated	Total TY($M)	Weighted Rate	Total CY2013 ($M)
Total	**6,408.2**	**-**	**-**	**-**	**-**	**-**	**6,408.2**	**-**	**4,095.6**
2006							-	0.911169	-
2007							-	0.931004	-
2008							-	0.946133	-
2009							-	0.958606	-
2010							-	0.977134	-
2011							-	0.991421	-
2012							-	1.007196	-
2013							-	1.020987	-
2014							-	1.034575	-
2015							-	1.049494	-
2016							-	1.068493	-
2017							-	1.091188	-
2018							-	1.116055	-
2019							-	1.143138	-
2020							-	1.183389	-
2021							-	1.241282	-
2022							-	1.293927	-
2023	173.520						173.5	1.331385	130.3
2024	170.451						170.5	1.361564	125.2
2025	341.318						341.3	1.390437	245.5
2026	411.268						411.3	1.419637	289.7
2027	418.483						418.5	1.449449	288.7
2028	487.140						487.1	1.479887	329.2
2029	499.211						499.2	1.510965	330.4
2030	498.249						498.2	1.542695	323.0
2031	495.606						495.6	1.575092	314.7
2032	505.353						505.4	1.608169	314.2
2033	511.580						511.6	1.641940	311.6
2034	521.866						521.9	1.676421	311.3
2035	535.029						535.0	1.711626	312.6
2036	365.382						365.4	1.747570	209.1
2037	182.054						182.1	1.784269	102.0
2038	172.010						172.0	1.821739	94.4
2039	92.274						92.3	1.859995	49.6
2040	12.870						12.9	1.899055	6.8
2041	8.738						8.7	1.938935	4.5

AN/SPY-6(V)4 Subprogram

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

1810N - Other Procurement, Navy									
fiscal year	End Item Recurring Flyaway	Non-End Item Recurring Flyaway	Non-Recurring Flyaway	Initial Spares	Depot Activation	Other/ Unallocated	Total TY($M)	Weighted Rate	Total CY2013 ($M)
2042	5.762						5.8	1.979653	2.9

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

1611N (BLS Hist) - Shipbuilding and Conversion, Navy				
fiscal year	AN/SPY-6(V)1			Total
Total	**30**			**30**
2016	1			1
2017	2			2
2018	1			1
2019	3			3
2020	3			3
2021	2			2
2022	2			2
2023	3			3
2024	2			2
2025	2			2
2026	2			2
2027	1			1
2028	2			2
2029	2			2
2030	2			2

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

1611N (BLS Hist) - Shipbuilding and Conversion, Navy				
fiscal year	AN/SPY-6(V)2			Total
Total	**15**			**15**
2016				-
2017				-
2018				-
2019				-
2020	4			4
2021	-			-
2022	2			2
2023	2			2
2024	1			1
2025	1			1
2026	-			-
2027	-			-
2028	1			1
2029	1			1
2030	-			-
2031	2			2
2032	-			-
2033	-			-
2034	1			1

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

1611N (BLS Hist) - Shipbuilding and Conversion, Navy				
fiscal year	AN/SPY-6(V)3			Total
Total	**25**			**25**
2016				-
2017				-
2018				-
2019				-
2020	2			2
2021	-			-
2022	3			3
2023	1			1
2024	2			2
2025	1			1
2026	4			4
2027	1			1
2028	2			2
2029	1			1
2030	2			2
2031	1			1
2032	-			-
2033	-			-
2034	-			-
2035	-			-
2036	1			1
2037	-			-
2038	-			-
2039	-			-
2040	-			-
2041	1			1
2042	-			-
2043	-			-
2044	-			-
2045	-			-
2046	1			1
2047	-			-
2048	-			-
2049	-			-
2050	-			-

AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

1611N (BLS Hist) - Shipbuilding and Conversion, Navy				
fiscal year	AN/SPY-6(V)3			Total
2051	1			1
2052	-			-
2053	-			-
2054	-			-
2055	-			-
2056	1			1

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

AN/SPY-6(V)4 Subprogram

1810N - Other Procurement, Navy				
fiscal year	AN/SPY-6(V)4			Total
Total	**25**			**25**
2016				-
2017				-
2018				-
2019				-
2020				-
2021				-
2022				-
2023	1			1
2024	1			1
2025	2			2
2026	2			2
2027	2			2
2028	2			2
2029	2			2
2030	2			2
2031	2			2
2032	2			2
2033	2			2
2034	2			2
2035	2			2
2036	1			1

Nuclear Costs

AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

Program's Use of Department of Energy Resources
None

Nuclear Costs

AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

Program's Use of Department of Energy Resources
None

Nuclear Costs

AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

Program's Use of Department of Energy Resources
None

Nuclear Costs

AN/SPY-6(V)4 Subprogram

Program's Use of Department of Energy Resources

None

Operational Fielding Plan

AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

System: AN/SPY-6(V)1

Fielding and Inventory Notes

Fielding plan aligned to PMS 400D MPS dated 29 Sept 2023. Systems are considered "operationally fielded" as soon as SCN Hulls are delivered to the Navy. "Store" is defined as systems delivered under contract but not yet installed/activated on SCN hulls. 2023 invintory: 6 Storage, 1 Field

AN/SPY-6(V)1 Fielding Plan and Inventory

fiscal year	Store	Field	Expend/Loss	Decommission	Inventory
2023					7
2024	2	-	-	-	9
2025	1	1	-	-	11
2026	1	1	-	-	13
2027	-	2	-	-	15
2028	(1)	3	-	-	17
2029	-	2	-	-	19

Operational Fielding Plan

AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

System: AN/SPY-6(V)2

Fielding and Inventory Notes

Fielding plan aligned to SCN construction profiles and backfit schedules. Systems are considered "operationally fielded" as soon as SCN Hulls are delivered to the Navy or when backfit hulls reach OWLD. "Store" is defined as systems delivered under contract but not yet installed/activated on SCN/backfit hulls. 2023 invintory: 2 Storage, 0 Field

AN/SPY-6(V)2 Fielding Plan and Inventory

fiscal year	Store	Field	Expend/Loss	Decommission	Inventory
2023					2
2024	1	1	-	-	4
2025	1	-	-	-	5
2026	(1)	2	-	-	6
2027	-	1	-	-	7
2028	-	1	-	-	8
2029	(1)	1	-	-	8

Operational Fielding Plan

AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

System: AN/SPY-6(V)3

Fielding and Inventory Notes

Fielding plan aligned to SCN construction profiles and backfit schedules. Systems are considered "operationally fielded" as soon as SCN Hulls are delivered to the Navy or when backfit hulls reach OWLD. "Store" is defined as systems delivered under contract but not yet installed/activated on SCN/backfit hulls.
2023 invintory: 1 Storage, 0 Field

AN/SPY-6(V)3 Fielding Plan and Inventory

fiscal year	Store	Field	Expend/Loss	Decommission	Inventory
2023					1
2024	-	-	-	-	1
2025	1	1	-	-	3
2026	3	-	-	-	6
2027	1		-	-	7
2028	(1)	2	-	-	8
2029	(2)	2	-	-	8

Operational Fielding Plan

AN/SPY-6(V)4 Subprogram

System: AN/SPY-6(V)4

Fielding and Inventory Notes

Fielding plan aligned to DDG Mod 2.0 schedules. Systems are considered "operationally fielded" as soon as backfit hulls reach OWLD. "Store" is defined as systems delivered under contract but not yet installed/activated on backfit hulls. 2023 invintory: 0 Storage, 0 Field

AN/SPY-6(V)4 Fielding Plan and Inventory

fiscal year	Store	Field	Expend/Loss	Decommission	Inventory
2023					-
2024	-	-	-	-	-
2025	-	-	-	-	-
2026	1	-	-	-	1
2027	1	-	-	-	2
2028	2	-	-	-	4
2029	1	1	-	-	6

O&S Independent Cost Estimate

AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

Independent and Current Cost Estimate Comparison

Category CY2013 ($M)	Independent Cost Estimate 2/9/2024	Current Estimate 4/9/2024	Variance with ICE (%)
Unit-Level Manpower			-
Unit Operations			-
Maintenance	2,118.7	2,407.2	14%
Sustaining Support	2,849.0	3,171.3	11%
Continued System Improvements	494.0	474.2	-4%
Other			-
Total O&S	**5,461.7**	**6,052.7**	**11%**

Independent Cost Estimate Source

Event: (V)1 APB
Type: Independent Cost Estimate
Approved by: NAVSEA Systems Engineering Directorate, February 9, 2024
Note: ICE inputs from APB

Current Cost Estimate Source

Type: Program Office Estimate
Approved by: Steve Hoerst, April 9, 2024

Cost Estimate Variance Explanation

3.0 Maintenance: Profile Adjustment, and LBTS support through FYDP

4.0 Sustaining Support: Profile Adjustment and New Depot Maintenance support (Test Assets Maintenance)

5.0 Continuing System Improvments: New Requirment -SITS Licenses

O&S Independent Cost Estimate

AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

Independent and Current Cost Estimate Comparison

Category CY2013 ($M)	Independent Cost Estimate 1/3/2023	Current Estimate 4/9/2024	Variance with ICE (%)
Unit-Level Manpower			-
Unit Operations			-
Maintenance	130.7	184.4	41%
Sustaining Support	503.0	773.8	54%
Continued System Improvements	99.5	130.3	31%
Other			-
Total O&S	**733.1**	**1,088.5**	**48%**

Independent Cost Estimate Source

Event: (V)2 APB
Type: Independent Cost Estimate
Approved by: NAVSEA Systems Engineering Directorate, January 3, 2023
Note: ICE inputs from APB

Current Cost Estimate Source

Type: Program Office Estimate
Approved by: Steve Hoerst, April 9, 2024

Cost Estimate Variance Explanation

General: Addition of real price change

3.0 Maintenance: Profile Adjustment, Removal of labor adjustment factor, and New LBTS support

4.0 Sustaining Support: Profile Adjustment, Removal of labor adjustment factor, Tech Refresh cycle length decrease from 8 to 6 years, and New Requirements - PC labor support and Depot Maintenance support (Test Asset Maintenance)

5.0 Continuing System Improvments: Profile adjustment, Removal of labor adjustment factor and HIDS Lincense requirement , and New Requirment -SITS Licenses

O&S Independent Cost Estimate

AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

Independent and Current Cost Estimate Comparison

Category CY2013 ($M)	Independent Cost Estimate 1/3/2023	Current Estimate 4/9/2024	Variance with ICE (%)
Unit-Level Manpower			-
Unit Operations			-
Maintenance	429.3	452.7	5%
Sustaining Support	1,324.0	1,628.7	23%
Continued System Improvements	370.3	325.5	-12%
Other			-
Total O&S	**2,123.6**	**2,406.9**	**13%**

Independent Cost Estimate Source

Event: (V)3 APB
Type: Independent Cost Estimate
Approved by: NAVSEA Systems Engineering Directorate, January 3, 2023
Note: ICE inputs from APB

Current Cost Estimate Source

Type: Program Office Estimate
Approved by: Steve Hoerst, April 9, 2024

Cost Estimate Variance Explanation

General: Addition of real price change

3.0 Maintenance: Profile Adjustment, Removal of labor adjustment factor, and New LBTS support

4.0 Sustaining Support: Profile Adjustment, Removal of labor adjustment factor, Tech Refresh cycle length decrease from 8 to 6 years, and New Requirements - PC labor support and Depot Maintenance support (Test Asset Maintenance)

5.0 Continuing System Improvments: Profile adjustment, Removal of labor adjustment factor and HIDS Lincense requirement , and New Requirment -SITS Licenses

O&S Independent Cost Estimate

AN/SPY-6(V)4 Subprogram

Independent and Current Cost Estimate Comparison

Category CY2013 ($M)	Independent Cost Estimate 2/9/2024	Current Estimate 4/9/2024	Variance with ICE (%)
Unit-Level Manpower			-
Unit Operations			-
Maintenance	908.5	926.2	2%
Sustaining Support	1,496.8	1,495.9	0%
Continued System Improvements	179.3	179.3	0%
Other			-
Total O&S	**2,584.6**	**2,601.3**	**1%**

Independent Cost Estimate Source

Event: (V)4 APB
Type: Independent Cost Estimate
Approved by: NAVSEA Systems Engineering Directorate, February 9, 2024
Note: ICE inputs from APB

Current Cost Estimate Source

Type: Program Office Estimate
Approved by: Steve Hoerst, April 9, 2024

Cost Estimate Variance Explanation

3.0 Maintenance: New requirement - LBTS support

Annual Operating and Support Estimates by Cost Element

AN/SPY-6(V)1 Air and Missile Defense Radar Subprogram

System: AN/SPY-6(V)1

Source for TY-CY Conversion: PB25_JIC _18Dec23_OSD_Guidance_with_Survey_Final

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 CY2013 ($M)
Total	**-**	**-**	**2,407.2**	**3,171.2**	**474.2**	**-**	**6,052.6**
2021			1.733	5.643	5.676		13.1
2022			13.288	1.759	9.216		24.3
2023			11.364	12.113	8.238		31.7
2024			5.323	24.017	7.528		36.9
2025			22.834	15.392	7.674		45.9
2026			27.031	37.082	8.368		72.5
2027			30.318	46.137	9.976		86.4
2028			37.307	46.725	10.940		95.0
2029			40.709	45.748	11.274		97.7
2030			31.584	69.706	11.691		113.0
2031			37.008	46.633	12.081		95.7
2032			42.263	70.094	12.500		124.9
2033			46.004	80.931	9.438		136.4
2034			45.639	78.973	9.877		134.5
2035			47.191	67.452	10.064		124.7
2036			50.388	68.427	10.086		128.9
2037			53.578	57.635	10.226		121.4
2038			55.084	91.248	10.500		156.8
2039			54.899	102.789	10.757		168.4
2040			54.774	91.182	10.875		156.8
2041			54.701	68.069	10.785		133.6
2042			54.629	67.804	10.795		133.2
2043			54.546	55.857	10.821		121.2
2044			54.477	90.570	10.793		155.8
2045			54.397	102.124	10.804		167.3
2046			54.465	90.542	10.832		155.8
2047			54.491	67.449	10.805		132.7
2048			54.428	67.396	10.816		132.6
2049			54.341	55.772	10.457		120.6
2050			54.345	90.524	10.430		155.3
2051			54.399	102.196	8.839		165.4
2052			54.376	90.605	8.865		153.8
2053			54.423	67.499	8.841		130.8

System: AN/SPY-6(V)1

Source for TY-CY Conversion: PB25_JIC _18Dec23_OSD_Guidance_with_Survey_Final

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 CY2013 ($M)
2054			54.422	67.475	8.853		130.8
2055			54.288	55.902	8.882		119.1
2056			54.164	90.619	8.694		153.5
2057			54.041	102.204	8.706		165.0
2058			53.924	90.648	8.735		153.3
2059			53.903	67.573	8.712		130.2
2060			53.873	55.960	8.729		118.6
2061			53.800	55.982	8.760		118.5
2062			53.711	78.543	6.009		138.3
2063			53.619	78.510	6.022		138.2
2064			51.974	66.655	5.999		124.6
2065			51.983	44.004	5.877		101.9
2066			50.024	19.879	5.837		75.7
2067			48.093	31.104	5.701		84.9
2068			44.530	41.914	5.472		91.9
2069			39.396	40.825	5.114		85.3
2070			35.805	27.237	4.701		67.7
2071			30.485	13.815	4.329		48.6
2072			25.164	11.956	3.846		41.0
2073			19.863	10.369	3.385		33.6
2074			14.563	8.819	2.886		26.3
2075			11.028	7.754	2.452		21.2
2076			11.030	7.858	2.237		21.1
2077			9.264	7.273	1.358		17.9
2078			5.731	6.147	1.149		13.0
2079			2.195	6.125	0.870		9.2

Annual Operating and Support Estimates by Cost Element

AN/SPY-6(V)2 Enterprise Air Surveillance Radar Subprogram

System: AN/SPY-6(V)2

Source for TY-CY Conversion: PB25_JIC _18Dec23_OSD_Guidance_with_Survey_Final

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 CY2013 ($M)
Total	**-**	**-**	**184.4**	**773.8**	**130.3**	**-**	**1,088.5**
2021				0.099	1.271		1.4
2022			1.157	0.411			1.6
2023							-
2024			0.841	5.487	3.667		10.0
2025			3.866	11.280	3.763		18.9
2026			4.124	12.414	3.815		20.4
2027			4.126	16.757	3.853		24.7
2028			4.841	12.425	3.938		21.2
2029			5.412	8.348	3.965		17.7
2030			2.826	22.682	4.027		29.5
2031			3.353	18.000	4.101		25.5
2032			3.739	13.808	4.079		21.6
2033			3.436	22.896	4.114		30.4
2034			4.322	27.732	4.226		36.3
2035			4.014	8.984	4.209		17.2
2036			3.701	22.985	4.140		30.8
2037			4.740	18.348	2.970		26.1
2038			5.031	13.650	2.969		21.7
2039			3.857	32.106	2.963		38.9
2040			4.722	27.488	2.955		35.2
2041			4.392	9.027	2.924		16.3
2042			4.176	22.660	2.887		29.7
2043			5.357	18.080	2.955		26.4
2044			5.028	13.465	2.925		21.4
2045			3.857	27.309	2.888		34.1
2046			4.813	27.314	2.957		35.1
2047			4.386	8.857	2.926		16.2
2048			3.941	17.846	2.874		24.7
2049			4.793	17.861	2.060		24.7
2050			4.749	13.250	2.037		20.0
2051			3.424	26.861	1.986		32.3
2052			4.009	22.268	2.015		28.3
2053			3.923	8.427	2.002		14.4

System: AN/SPY-6(V)2

Source for TY-CY Conversion: PB25_JIC _18Dec23_OSD_Guidance_with_Survey_Final

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 CY2013 ($M)
2054			3.623	17.661	1.967		23.3
2055			4.518	17.665	2.024		24.2
2056			3.985	12.809	1.983		18.8
2057			3.200	22.067	1.933		27.2
2058			3.708	22.071	1.990		27.8
2059			3.707	8.236	1.971		13.9
2060			3.407	17.474	1.948		22.8
2061			3.976	12.865	2.008		18.8
2062			3.822	8.040	1.969		13.8
2063			2.872	17.111	1.915		21.9
2064			3.402	16.752	1.964		22.1
2065			2.921	7.462	1.090		11.5
2066			2.419	6.872	1.019		10.3
2067			2.730	6.653	1.028		10.4
2068			2.709	6.511	0.977		10.2
2069			1.882	10.875	0.938		13.7
2070			1.445	5.627	0.907		8.0
2071			1.195	4.975	0.620		6.8
2072			1.141	4.967	0.583		6.7
2073			1.171	4.210	0.601		6.0
2074			0.327	2.586	0.510		3.4
2075			0.328	2.788	0.462		3.6
2076			0.328	2.796	0.496		3.6
2077			0.328	2.789	0.472		3.6
2078			0.332	2.795	0.472		3.6

Annual Operating and Support Estimates by Cost Element

AN/SPY-6(V)3 Enterprise Air Surveillance Radar Fixed Face Subprogram

System: AN/SPY-6(V)3

Source for TY-CY Conversion: PB25_JIC _18Dec23_OSD_Guidance_with_Survey_Final

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 CY2013 ($M)
Total	**-**	**-**	**452.7**	**1,628.7**	**325.5**	**-**	**2,406.9**
2021							-
2022							-
2023							-
2024			1.068	4.019	5.774		10.9
2025			3.648	5.529	7.839		17.0
2026			4.097	14.941	7.887		26.9
2027			5.915	7.933	7.969		21.8
2028			7.072	16.325	8.150		31.5
2029			7.054	39.699	8.438		55.2
2030			6.294	24.627	8.591		39.5
2031			6.780	9.257	8.693		24.7
2032			8.143	49.011	8.932		66.1
2033			9.039	17.384	9.129		35.6
2034			9.442	40.701	9.315		59.5
2035			9.402	56.086	9.447		74.9
2036			9.344	32.908	9.532		51.8
2037			9.292	9.114	9.478		27.9
2038			9.259	48.197	9.457		66.9
2039			9.238	16.392	6.282		31.9
2040			9.223	39.919	6.232		55.4
2041			9.215	55.610	6.217		71.0
2042			9.206	32.083	6.247		47.5
2043			9.636	8.660	6.199		24.5
2044			9.628	47.865	6.233		63.7
2045			10.057	24.382	6.345		40.8
2046			10.065	40.060	6.344		56.5
2047			10.069	63.603	6.385		80.1
2048			10.061	32.222	4.844		47.1
2049			10.488	8.732	4.808		24.0
2050			10.489	47.950	4.812		63.3
2051			10.937	32.340	4.936		48.2
2052			10.933	32.328	4.891		48.2
2053			10.501	47.977	4.886		63.4

System: AN/SPY-6(V)3

Source for TY-CY Conversion: PB25_JIC _18Dec23_OSD_Guidance_with_Survey_Final

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 CY2013 ($M)
2054			10.063	16.562	4.878		31.5
2055			9.170	16.472	4.792		30.4
2056			8.282	24.218	4.613		37.1
2057			7.397	24.138	4.460		36.0
2058			6.515	16.211	4.269		27.0
2059			5.643	31.822	3.064		40.5
2060			5.206	8.268	2.935		16.4
2061			4.766	16.093	2.807		23.7
2062			4.762	15.976	2.704		23.4
2063			4.758	31.669	2.787		39.2
2064			4.763	15.973	2.789		23.5
2065			4.720	31.405	2.772		38.9
2066			4.651	7.047	2.794		14.5
2067			4.181	14.589	2.790		21.6
2068			4.146	14.393	2.713		21.3
2069			4.100	29.741	2.732		36.6
2070			3.989	13.407	2.770		20.2
2071			3.961	28.893	2.756		35.6
2072			3.876	4.990	2.783		11.6
2073			3.862	12.715	2.801		19.4
2074			3.895	4.980	2.806		11.7
2075			3.926	28.572	2.831		35.3
2076			3.438	12.506	1.431		17.4
2077			3.450	20.439	1.379		25.3
2078			3.517	4.849	1.380		9.7
2079			3.234	12.584	1.426		17.2
2080			3.565	4.507	1.330		9.4
2081			3.514	28.041	1.330		32.9
2082			3.467	4.509	1.399		9.4
2083			2.975	19.890	1.297		24.2
2084			2.937	4.215	1.245		8.4
2085			2.903	12.059	1.315		16.3
2086			2.873	4.215	1.239		8.3
2087			2.846	27.759	1.246		31.9
2088			2.821	4.227	1.316		8.4
2089			2.799	19.962	1.240		24.0
2090			2.779	4.242	1.247		8.3

System: AN/SPY-6(V)3

Source for TY-CY Conversion: PB25_JIC _18Dec23_OSD_Guidance_with_Survey_Final

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 CY2013 ($M)
2091			2.761	12.086	1.317		16.2
2092			2.745	4.242	1.241		8.2
2093			2.730	19.947	1.248		23.9
2094			2.717	4.259	1.310		8.3
2095			2.255	11.787	1.214		15.3
2096			2.244	3.954	1.155		7.4
2097			1.784	11.421	1.197		14.4
2098			1.775	3.649	1.069		6.5
2099			1.767	11.493	1.070		14.3
2100			1.760	3.649	1.131		6.5
2101			1.304	3.294	1.042		5.6
2102			1.298	3.343	0.976		5.6
2103			0.842	2.894	1.017		4.8
2104			0.838	3.038	0.890		4.8
2105			0.833	10.882	0.862		12.6
2106			0.830	3.038	0.872		4.7
2107			0.826	3.038	0.803		4.7
2108			0.823	3.085	0.488		4.4
2109			0.821	3.038	0.557		4.4
2110			0.818	3.038	0.488		4.3
2111			0.816	2.751	0.353		3.9
2112			0.814	2.751	0.415		4.0

Annual Operating and Support Estimates by Cost Element

AN/SPY-6(V)4 Subprogram

System: AN/SPY-6(V)4

Source for TY-CY Conversion: PB25_JIC _18Dec23_OSD_Guidance_with_Survey_Final

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 CY2013 ($M)
Total	**-**	**-**	**926.2**	**1,495.9**	**179.3**	**-**	**2,601.3**
2021							-
2022							-
2023							-
2024							-
2025							-
2026			17.695				17.7
2027			0.466	5.281	3.384		9.1
2028			2.204	7.922	6.035		16.2
2029			4.277	9.612	6.223		20.1
2030			7.684	25.802	6.367		39.9
2031			10.807	26.123	6.843		43.8
2032			13.975	42.298	7.036		63.3
2033			17.294	43.129	7.446		67.9
2034			20.467	43.855	7.854		72.2
2035			23.661	45.084	5.829		74.6
2036			26.856	61.513	6.212		94.6
2037			30.045	63.175	6.625		99.8
2038			33.249	78.763	6.930		118.9
2039			36.462	79.719	7.321		123.5
2040			39.316	80.842	7.744		127.9
2041			40.617	81.962	8.052		130.6
2042			40.729	81.399	8.234		130.4
2043			40.831	65.118	4.948		110.9
2044			40.947	49.334	4.880		95.2
2045			41.053	65.377	4.839		111.3
2046			36.391	48.542	4.400		89.3
2047			33.286	48.171	4.063		85.5
2048			33.386	48.728	3.959		86.1
2049			31.843	64.806	3.958		100.6
2050			30.261	47.704	3.659		81.6
2051			28.622	46.997	3.507		79.1
2052			27.057	45.890	3.383		76.3
2053			23.800	45.064	3.034		71.9

System: AN/SPY-6(V)4

Source for TY-CY Conversion: PB25_JIC _18Dec23_OSD_Guidance_with_Survey_Final

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 CY2013 ($M)
2054			22.199	44.254	2.817		69.3
2055			22.242	26.840	2.856		51.9
2056			22.268	9.596	2.898		34.8
2057			22.310	9.446	2.847		34.6
2058			22.354	9.295	2.887		34.5
2059			18.983	8.148	2.465		29.6
2060			15.590	6.998	2.069		24.7
2061			13.839	6.599	1.997		22.4
2062			12.144	6.095	1.774		20.0
2063			10.439	5.590	1.474		17.5
2064			5.257	4.089	1.023		10.4
2065			3.509	3.594	0.821		7.9
2066			1.763	3.130	0.584		5.5