Modernized Selected Acquisition Report (MSAR)

Next Generation Jammer Low Band (NGJ Low Band)

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
Next Generation Jammer Low Band

Short Name
NGJ Low Band

PNO
520

Decision Authority
Component Acquisition Executive

Lead Component
Department of the Navy

Program Executive Office
PEO Tactical Air

Joint Program
No

International Partners
Australia

Adaptive Acquisition Pathway
Major Capability Acquisition

Acquisition Type
Major Defense Acquisition Program

Acquisition Category
IB

Acquired Systems
NGJ Low Band

Acquisition Status
Active Acquisition

Mission
Next Generation Jammer Low Band (INC 2) (NGJ Low Band) addresses Airborne Electronic Attack (AEA) capability and sufficiency gaps against enemy threats operating in the lower frequency bands of the electromagnetic spectrum and increases survivability and lethality of 4th and 5th generation platforms and strike weapons. NGJ Low Band will provide the ability to effectively engage enemy threats from increased stand-off distances, employ increased capacity (number of jamming assignments) against enemy targets, and support agile employment by operators. NGJ Low Band will augment and ultimately replace the legacy AN/ALQ-99 Tactical Jamming System in the low frequency spectrum. Operating in concert with the EA-18G's electronic receiver and through the aircraft's on-board mission computers, NGJ is designed to provide EA capability when employed in an independent, standoff, modified escort, and escort role. NGJ Low Band is designed to be a single pod mounted on the EA-18G's center station (station 6).

(U) Responsible Office

Program Executive Officer
PEO Tactical Air
RADM John Lemmon
john.s.lemmon.mil@us.navy.mil (primary)
no phone number provided

Program Manager
Next Generation Jammer Low Band PMO
CAPT David Rueter
david.j.rueter.mil@us.navy.mil (primary)
no phone number provided

(U) Executive Summary

Program Highlights Since Last Report

In December 2020, the Assistant Secretary of the Navy (Research, Development, and Acquisition) (ASN(RD&A)) signed the Milestone B ADM for the Next Generation Jammer Low Band (NGJ LB) program authorizing entry into the EMD phase as an ACAT IB program and approved an LRIP quantity of up to 45 shipsets. The EMD contract was awarded in December 2020. This award was subsequently followed by two protest periods to the Government Accounting Office (GAO), followed by a third protest period to the Court Of Federal Claims (COFC). The COFC issued an oral decision on April 8, 2022 and enjoined the Department of Navy (DoN) from executing the awarded contract. Negotiations between the parties and the Department of Justice ensued, resulting in a stipulation agreement by all parties on June 10, 2022. The stipulation agreement included the direction from the COFC to terminate the original contract for the convenience of the government and re-open discussions after an Independent Review Team (IRT) reviewed the NGJ LB Request for Proposals (RFP) and specification to ensure they accurately reflected the DoN's requirements. The IRT was closed on June 8, 2023. The team reopened discussions in June 2023 and Source Selection remains ongoing. The estimated contract award is 3Q FY2024. The MDA was notified of a schedule deviation. A revised APB will be submitted for approval when closer to finalizing the contract award.
NGJ LB RDT&E FY 2024 Congressional marks are as follows: (-$6.100M) for "Test and evaluation excess to need". ($-10.000M) for "Rephase annualized program costs due to EMD delay" and (-$64.475M) for "Rephase EMD costs due to contract delay."
Defense Cost and Resource Center (DSARC) Cost and Software Data Reporting Compliance (CSDR) Rating: Green Advisory. All outstanding CSDR deliverables are less than or equal to three months overdue: 1 software report, 1 flex file. The rating of green advisory is an error. NGJ LB has no outstanding submission events or rejected reports and should be rated green.
The NGJ LB Modular Open Systems Architecture approach requires the Prime Contractor to develop and comply with a Government-approved Open System Management Plan, to include identification of Commercial-Off-the-Shelf/Non-development Item components, their functionality and proposed use in the system, and provide copies of license agreements related to the use of these components for Government approval prior to use.
There are no known significant software-related issues with this program at this time.

(U) History of Significant Developments Since Program Inception

Date	Description
June 2023	Reopened discussions
June 2023	IRT report completed
June 2022	EMD contract termination sent
June 2022	Independent Review Team (IRT) chartered per stipulation agreement
June 2022	Stipulation Agreement between the DoN and EMD contract offerors
April 2022	COFC enjoined the Navy from moving forward with the current EMD award
October 2021	Protest to the COFC
May 2021	Second EMD contract protest filed with GAO

Date	Description
May 2021	EMD contract stop work lifted
May 2021	Second EMD contract stop work in place
February 2021	Initial protest submitted to the GAO; stop work order initiated
December 2020	EMD Contract award
December 2020	NGJ Low Band program received Milestone B approval to enter EMD

(U) Schedule

(U) Schedule Events

Events		Development APB (Milestone) 12/8/2020 Objective	Development APB (Current) 12/8/2020 Objective / Threshold		Current Estimate 12/31/2023	Actual
Milestone B	MS B	Dec 2020	Dec 2020	Jun 2021	-	8 Dec 2020
Critical Design Review	CDR	Oct 2021	Oct 2021	Oct 2022	-	-
Milestone C	MS C	Aug 2026	Aug 2026	Aug 2027	-	-
Operational Test Readiness Review	IOT&E	Sept 2028	Sept 2028	Sept 2029	-	-
Initial Operational Test & Evaluation	IOT&E	Oct 2028	Oct 2028	Jun 2029	-	-
Initial Operational Capability	IOC	Jul 2029	Jul 2029	Jan 2030	-	-
Full Rate Production	FRP Decision	Jun 2030	Jun 2030	Dec 2030	-	-

Notes

The MDA was notified of a schedule deviation. A revised APB will be submitted for approval when closer to finalizing the contract award.

Schedule Baseline Deviation Explanation

None

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

Event	Date	Description
Other	12/31/2023	Full impact of the protest periods on the EMD contract will be determined after the COFC proceedings and associated stipulation actions.

(U) Performance

(U) Performance Attributes

Material Availability (Am): Am is a measure of the percentage of the total inventory of the NGJ systems operationally capable of performing an assigned mission at a given time, based on material condition.		**KPP**
Current Estimate **12/31/2023**		TBD
Demonstrated Performance -		-
Development APB (Current)	**Objective**	**REDACTED**
12/8/2020	**Threshold**	**REDACTED**
Development APB (Milestone) **12/8/2020**	**Objective**	**REDACTED**
Operational Availability (Ao): Ao is the percentage of time an operationally assigned system is available for operational use.		**KPP**
Current Estimate **12/31/2023**		TBD
Demonstrated Performance -		-
Development APB (Current)	**Objective**	**REDACTED**
12/8/2020	**Threshold**	**REDACTED**
Development APB (Milestone) **12/8/2020**	**Objective**	**REDACTED**

(U) Requirement Source:

Sponsor(s): United States Navy

1. Capability Development Document, -
   Validated By: -, August 11, 2015

Notes

None

Performance Deviation Explanation

None

(U) Acquisition Budget Estimate

(U) Total Acquisition Estimates and Quantities

Category ($M) Base Year: 2020	Development APB (Milestone) 12/8/2020 CY$ obs Objective	Development APB (Current) 12/8/2020 CY$ obs Objective / Threshold		Current Estimate PB 2025 CY$ obs / TY$ obs	
RDT&E	2,046.4	2,046.4	2,251.0	1,590.2	1,967.2
Procurement	2,070.0	2,070.0	2,277.0	1,952.6	2,950.7
Total Acquisition	4,116.4	4,116.4	-	3,542.8	4,917.9
Program Acquisition Unit Cost	30.492	30.492	33.541	26.243	36.429
Average Procurement Unit Cost	15.333	15.333	16.866	14.464	21.857
Program End-Item Quantity					
Development	0	0		-	
Procurement	135	135		135	
O&M-Acquired	-	-		-	

Budget Notes

The full impact of the EMD contract delay on RDTE and APN funding are TBD until after EMD contract award. Following EMD contract award, funding profile may require adjustment in future budget submission. The PB 2025 funding profile reflects a total RDTE reduction and does not include APN funding, as production is not anticipated to begin until beyond the PB 2025 FYDP. APN reflected above represents an estimate of production beginning in FY 2030 and will be reflected in future budget submissions.

Quantity Notes

None

Cost Baseline Deviation Explanation

None

(U) Risk and Sensitivity Analysis

Current Procurement Estimate Risks (12/31/2023)	
1	The PB 2025 funding profile does not include APN funding, as production is not anticipated to begin until beyond the PB 2025 FYDP. APN reflected above represents an estimate of production beginning in FY 2030 and will be reflected in future budget submissions.
2	The PB 2025 funding profile reflects a total RDTE reduction and must be updated following EMD contract award and subsequent cost estimate update, which may be reflected in future budget submissions.
Current Baseline Risks (12/8/2020)	

After review of the programmatic and technical baseline at Milestone B, the MDA directed the NGJ Low Band program to use the SCP as the funding requirement. The OSD CAPE performed an ICE, which independently validated the SCP. Despite using different methodologies, both estimates were well within the bounds of estimating error both in total and for each individual phase of the life cycle cost estimate. The development estimate will be sensitive to software, transmitter group and Controller-Receiver-Exciter (CRE) design, and engineering design module asset procurement. The production estimate was determined to be highly sensitive to the technical inputs associated with the transmitter group CRE cost. The transmitter group and CRE costs were estimated based on analogies to NGJ Mid-Band with program specific adjustments for complexity. The Learn and Rate curves were based on analysis of historical production data.

Original Baseline Risks (12/8/2020)

After review of the programmatic and technical baseline at Milestone B, the MDA directed the NGJ Low Band program to use the SCP as the funding requirement. The OSD CAPE performed an ICE, which independently validated the SCP. Despite using different methodologies, both estimates were well within the bounds of estimating error both in total and for each individual phase of the life cycle cost estimate. The development estimate will be sensitive to software, transmitter group and Controller-Receiver-Exciter (CRE) design, and engineering design module asset procurement. The production estimate was determined to be highly sensitive to the technical inputs associated with the transmitter group CRE cost. The transmitter group and CRE costs were estimated based on analogies to NGJ Mid-Band with program specific adjustments for complexity. The Learn and Rate curves were based on analysis of historical production data.

(U) Unit Costs

(U) Current Estimate Compared with Current Baseline

Category (CY$M) Base Year: 2020	Current Baseline 12/08/2020	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	4,116.4	3,542.8	
Program Quantity	135	135	
PAUC	30.492	26.243	-13.93%
Average Procurement Unit Cost			
Procurement Cost	2,070.0	1,952.6	
Procurement Quantity	135	135	
APUC	15.333	14.464	-5.67%

(U) Current Estimate Compared with Original Baseline

Category (CY$M) Base Year: 2020	Original Baseline 12/08/2020	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	4,116.4	3,542.8	
Program Quantity	135	135	
PAUC	30.492	26.243	-13.93%
Average Procurement Unit Cost			
Procurement Cost	2,070.0	1,952.6	
Procurement Quantity	135	135	
APUC	15.333	14.464	-5.67%

(U) Cost Growth Details

Impacts of Schedule Changes on Unit Cost

Due to total RDT&E reduction and no schedule relief; future schedule and technical requirement or funding adjustment is required.

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

See Contracts section.

Notes

None

(U) Life-Cycle Costs

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

Category ($M) Base Year: 2020	Development APB (Milestone) 12/8/2020 CY$ obs Objective	Development APB (Current) 12/8/2020 CY$ obs Objective / Threshold		Current Estimate CY$ obs / TY$ obs	
Total O&S	934.0	934.0	1,027.4	929.5	1,643.9
Total Disposal	-	-	-	2.4	4.4

(U) Current Cost Estimate Sources

Operating and Support Cost
Type: Component Cost Position
Approved by: DASN(APB), DASN Budget, November 23, 2020

Disposal/Demilitarization Cost
Type: No estimate. Not Applicable

Operating and Support Baseline Deviation Explanation

None

Cost Notes

ALQ-99 (Antecedent) Assumption Final Fiscal Year Operational is undetermined. Estimated in Service through 2035.

(U) Operating and Support Variance with Prior Estimate

No Data

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

(CY$M) Base Year: 2020							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
NGJ Low Band	-	-	430.0	257.2	242.3	-	929.5
Program	-	-	430.0	257.2	242.3	-	929.5

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

(CY$M) Base Year: 2020							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
NGJ Low Band	-	-	0.3	0.2	0.2	-	**0.7**
ALQ-99 (Antecedent)	0.1	-	0.5	0.1	0.1	0.0	**0.8**

(U) Operating and Support Cost Estimate Assumptions

System	Quantity to Sustain	Unit Expected Service Life (Years)	Unit of Measure	Fiscal Years Operational
NGJ Low Band	135	20.0	Shipset =1 pod	2032 - 2050
ALQ-99 (Antecedent)	180	60.0	Shipset =1 pod	1971 - 2035

Additional O&S Estimate Assumptions

Sustainment Strategy

- Developmental Support Strategy utilizes Contractor Logistics Support (CLS) for on-site test support, spares, and repairs and initiates a Public-Private Partnership at contract award between the Contractor and NSWC Crane to develop and maintain the product support package through the completion of Initial Operational Test and Evaluation (IOT&E).
  - Interim Support Strategy consists of O-Level to Original Equipment Manufacturer support, as well as material and services through Captains of Industry (COI) support, and early provisioning from the completion of IOT&E through Initial Operational Capability (IOC) plus four (4) years.
  -Long Term Support Strategy is transitioning into three-level Organic maintenance capability and utilizing a variety of PBAs supported by analysis.
  -Unit of measure (system) is defined as a shipset, which consists of 1 pod.

Antecedent Estimate Assumptions

- Antecedent program: ALQ-99 Tactical Jamming System
- The dataset used in the antecedent costs were reported based on 2008 costs, which are most representative of steady state prior to de-commissioning EA-6B squadrons.
- The dataset includes data from the ALQ-99 system, which covers a larger frequency spectrum than the NGJ LB system, and is not normalized to specific Low Band data.
- Due to data limitations, the antecedent is represented in dollars per aircraft operating years based on Primary Aircraft Authorization.
- Data sources: Decision Knowledge Programming for Logistics Analysis and Technical Evaluation, Naval Visibility and Management of Operating and Support Costs database, and various technical sources, including Naval Air Systems Command AIR 4.2.2, Naval Air Warfare Center Weapons Division Point Mugu, Naval Sea Systems Command Crane, and Center for Naval Aviation Technical Training.
  - Total O&S Cost for ALQ-99 in CY16$ is $1409.9M.
  - Average Annual Cost per System ALQ-99 (Antecedent) is $0.765M

O&S Annual Cost Calculation Memo

Annual O&S Costs = Unitized cost x Total Operating Years x 1M = .667 x 1393 x 1000,000 = 929.5M

(U) Production

(U) Low-Rate Initial Production

	Original LRIP Determination	Current LRIP Determination
Total LRIP Quantity	45	45
Date	12/8/2020	12/8/2020
Reference	NGJ Low Band Navy Milestone B ADM	NGJ Low Band Navy Milestone B ADM
LRIP Period	FY 2026 - 2028	FY 2030 - 2032
Total Procurement Quantity	135	135
LRIP Percentage of Total	33.3%	33.3%

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 in order to provide production representative NGJ LB systems in support of IOT&E, ensure adequate and efficient manufacturing capability while maintaining the industrial base, and permit an orderly increase, and hence reduced risk, in the NGJ LB production rate leading to the current planned maximum/optimal economic production rate.

LRIP Notes

LRIP beginning in FY 2030 is an estimation. The PB 2025 funding profile does not include procurement funding. Funding profile will need to be addressed in future budget submissions after EMD contract is awarded.

(U) Deliveries and Expenditures

(U) Acquisition Funding

	Total Estimate	Actual to Date	Actual, Percent Complete
Years Appropriated	22	9	40.9%
Appropriations (TY, $M)	4,917.9	637.0	13.0%
Expenditures (TY, $M)	4,917.9	415.5	8.4%

(U) End Items Delivered

	Total Required	Planned to Date	Actual to Date	Actual, Percent Complete
Procurement	135			
Total	**135**	-	-	-

Notes

None

(U) International Program Aspects

General Memo

The Next Generation Jammer Low Band (NGJ LB) program will execute under an International Cooperative Program (ICP) established between the U.S. DoD and Australian Department of Defence (ADOD). The NGJ Production, Sustainment, and Follow-On Development (PSFD) Memorandum of Understanding (MOU) and subordinate NGJ LB Project Arrangement were signed in July 2020, enabling co-development of the NGJ LB solution with Royal Australian Air Force (RAAF).

Exportability and Business Issues

Both nations committed financial and non-financial resources to the NGJ LB program, providing flexibility for budget planning, ability to leverage each nation's workforce, and ability to utilize equipment and facilities in both nations. Cooperation in the development, production, and sustainment for the NGJ LB system will maximize production and sustainment efficiencies and enable life cycle cost savings. Under the ICP, both the USN and RAAF will benefit from commonality of configuration to ensure interoperability of the NGJ LB system.

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

Program Protection: Technology Security and Foreign Disclosure Issues

NGJ LB leadership is responsible for ensuring program protection activities are integrated into the program and that program personnel support program protection development and implementation efforts. The NGJ LB PM has appointed a Program Protection Lead responsible for the coordination and execution of activities related to Cybersecurity and Systems Security Engineering, including but not limited to: Risk Management Framework, Software Assurance, Information Assurance, and Supply Chain Risk Management. The Program Protection Lead establishes and chairs an IPT which includes Subject Matter Experts from Cybersecurity, Software, Product Support, Systems Engineering, Test and Evaluation, Software, and Program Security.

(U) Agreements

Activity Date	Type	Agreement Number	International Partner(s)	Quantity	Funding (TY$M)
7/13/2020	ICPA	01-20	Australia (AT)	-	55.0
5/21/2020	ICP MOU	N/A	Australia (AT)	-	-

(U) Agreement Information

Partner(s):	Australia (AT)	**Activity Date:**	7/13/2020
Type:	International Cooperative Project Agreement/Arrangement	**Agreement Number:**	01-20
Notes:	As a Cooperative program, the NGJ LB ICPA provides $55.0M of shared funding contributions from the		

RAAF towards the development of the NGJ LB system. As such, the ICPA shared funding does not result in end items for the RAAF.
No funding expenditures have occurred to date; the program may utilize the ICPA funding towards the development costs of the NGJ LB system.

Australia (AT)

Fiscal Year	Funding (TY$M)	Quantity
2021	55.0	-
Total	**55.0**	**-**

(U) Agreement Information

Partner(s):	Australia (AT)	**Activity Date:**	5/21/2020
Type:	International Cooperative Program: Memorandum of Understanding	**Agreement Number:**	N/A
Notes:	None		

Australia (AT)

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

Modernized Selected Acquisition Report Supplement

Next Generation Jammer Low Band (NGJ Low Band)

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

MSAR Supplement Sections

Program Description

Program Use of the Adaptive Acquisition Framework

Technologies and Systems Engineering

Funding Sources (Acquisition)

Funding Sources (Operating and Support)

Acquisition Estimate and Quantity Summary

Annual Acquisition Estimates by Appropriation Account

Acquired System Annual End-Item Quantities by Appropriation Account

Nuclear Costs

Operational Fielding Plan

O&S Independent Cost Estimate

Annual Operating and Support Estimates by Cost Element

Program Description

Full Name
Next Generation Jammer Low Band

Short Name
NGJ Low Band

PNO
520

Lead Component
Navy

AAF Pathway
MCA

Acquisition Type
MDAP

Acquired Systems
NGJ Low Band

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

Next Generation Jammer Low Band

Major Software Efforts

Title	Status	Fielding Date	Description
Not applicable at this time			

Major Engineering Changes

Title	Original Need Date	Fielding Date	Description, Rationale and Program Impacts
Not applicable at this time			

Funding Sources (Acquisition)

Acquisition Funding Notes

The full impact of the EMD contract delay on RDTE and APN funding are TBD until after EMD contract award. Following EMD contract award, funding profile may require adjustment in future budget submission. The PB 2025 funding profile reflects a total RDTE reduction and does not include APN funding, as production is not anticipated to begin until beyond the PB 2025 FYDP. APN reflected above represents an estimate of production beginning in FY 2030 and will be reflected in future budget submissions.

Next Generation Jammer Low Band

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
RDT&E	1319N	05	0604282N - Next Generation Jammer (NGJ) Increment II	0604282N	3380 - Next Generation Jammer Inc II		
Procurement	1506N	05	0591 - Next Generation Jammer (NGJ)	0204154N	-		

Funding Sources (Operating and Support)

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

Operating and Support Funding Notes

O&S estimate includes required PRE and PRL funding within the overall 1A4N OMN account. PRE and PRL are currently required outside of the PB25 FYDP.

Next Generation Jammer Low Band

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
O&M	1804N	01	1A4N - Air Systems Support	0204154N	-		

Acquisition Estimate and Quantity Summary

Next Generation Jammer Low Band

Acquisiton Estimates

Category PB 2025	TY ($M)	Current Base Year CY2020 ($M)	Original Base Year CY2020 ($M)	Report Fiscal Year CY2024 ($M)
RDT&E	1,967.2	1,590.2	1,590.2	1,880.8
Procurement	7,308.7	5,409.0	5,409.0	6,397.4
MILCON	-	-	-	-
O&M	-	-	-	-
Total Acquisition	9,275.8	6,999.2	6,999.2	8,278.2
PAUC	68.710	51.846	51.846	61.320
APUC	54.138	40.066	40.066	47.388

Acquisiton End-Item Quantities

System PB 2025	Development	Procurement
NGJ Low Band	-	135
Total	**-**	**135**

Unit Description

Program of record is 135 NGJ-LB shipsets. PAUC and APUC reflect reduced RDTE funding and projected APN estimates, as the PB25 funding profile does not include Procurement funding in the FYDP. The full impact of the EMD contract delay on RDT&E and Procurement funding will be determined following contract award and reflected in a future budget submission. Due to total RDT&E reduction and no schedule relief; future schedule and technical requirement or funding adjustment is required.

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

Appropriation	Prior	2024	2025	2026	2027	2028	2029	To Complete	Total
RDT&E	467.0	170.0	209.6	254.1	224.7	213.7	91.6	336.4	1,967.2
Procurement	926.7	628.9	762.3	674.2	641.1	274.7	450.0	2,950.7	7,308.7
MILCON	-	-	-	-	-	-	-	-	-
O&M	-	-	-	-	-	-	-	-	-
PB 2025 Total	**1,393.7**	**798.9**	**972.0**	**928.3**	**865.8**	**488.4**	**541.6**	**3,287.1**	**9,275.8**

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Next Generation Jammer Low Band

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($M)	Weighted Rate	Total CY2020 ($M)
Total		**1,967.2**	**1,967.2**	**-**	**1,590.2**
2016		12.306	12.3	0.951319	12.9
2017		17.339	17.3	0.969119	17.9
2018		50.703	50.7	0.992857	51.1
2019		91.216	91.2	1.011979	90.1
2020		88.635	88.6	1.049194	84.5
2021		67.890	67.9	1.096349	61.9
2022		65.825	65.8	1.153625	57.1
2023		73.079	73.1	1.187969	61.5
2024		170.002	170.0	1.215087	139.9
2025		209.623	209.6	1.240863	168.9
2026		254.109	254.1	1.266921	200.6
2027		224.741	224.7	1.293526	173.7
2028		213.695	213.7	1.320690	161.8
2029		91.583	91.6	1.348425	67.9
2030		150.014	150.0	1.376742	109.0
2031		100.907	100.9	1.405653	71.8
2032		85.489	85.5	1.435172	59.6

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Next Generation Jammer Low Band

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

1506N - Aircraft Procurement, Navy									
fiscal year	End Item Recurring Flyaway	Non-End Item Recurring Flyaway	Non-Recurring Flyaway	Initial Spares	Depot Activation	Other/ Unallocated	Total TY($M)	Weighted Rate	Total CY2020 ($M)
Total	**1,854.2**	**41.4**	**-**	**155.9**	**189.2**	**5,068.0**	**7,308.7**	**-**	**5,409.0**
2016							-	0.967386	-
2017							-	0.988036	-
2018							-	1.008019	-
2019							-	1.035827	-
2020							-	1.076685	-
2021						197.475	197.5	1.126071	175.4
2022						219.237	219.2	1.170404	187.3
2023						510.006	510.0	1.202721	424.0
2024						628.869	628.9	1.229631	511.4
2025						762.327	762.3	1.255670	607.1
2026						674.223	674.2	1.282039	525.9
2027						641.085	641.1	1.308962	489.8
2028						274.749	274.7	1.336450	205.6
2029						450.042	450.0	1.364516	329.8
2030	170.177	2.960		39.468	16.168	77.922	306.7	1.393170	220.1
2031	178.980	7.518		20.574	32.250	61.418	300.7	1.422427	211.4
2032	205.230	9.366		68.674	45.532	58.352	387.2	1.452298	266.6
2033	234.216	9.553		27.136	45.419	72.222	388.5	1.482796	262.0
2034	233.051	8.564			25.752	75.723	343.1	1.513935	226.6
2035	233.362	3.465			15.843	71.853	324.5	1.545728	209.9
2036	234.550				8.236	55.235	298.0	1.578188	188.8
2037	214.741					54.180	268.9	1.611330	166.9
2038	149.906					64.941	214.8	1.645168	130.6
2039						55.174	55.2	1.679716	32.8
2040						62.969	63.0	1.714990	36.7

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

Next Generation Jammer Low Band

1319N - Research, Development, Test & Eval, Navy				
fiscal year	NGJ Low Band			Total
Total	**-**			**-**
Undistributed				**-**

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

Next Generation Jammer Low Band

1506N - Aircraft Procurement, Navy				
fiscal year	NGJ Low Band			Total
Total	**135**			**135**
Undistributed				-
2030	10			10
2031	12			12
2032	15			15
2033	18			18
2034	18			18
2035	18			18
2036	18			18
2037	16			16
2038	10			10

Nuclear Costs

Next Generation Jammer Low Band

Program's Use of Department of Energy Resources

None

Operational Fielding Plan

Next Generation Jammer Low Band

System: NGJ Low Band

Fielding and Inventory Notes
Fielding plan is outside of the FYDP.

NGJ Low Band Fielding Plan and Inventory

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

O&S Independent Cost Estimate

Next Generation Jammer Low Band

Independent and Current Cost Estimate Comparison

Category CY2020 ($M)	Independent Cost Estimate 11/23/2020	Current Estimate 11/23/2020	Variance with ICE (%)
Unit-Level Manpower	-		-
Unit Operations	-		-
Maintenance	430.0	430.0	0%
Sustaining Support	257.2	257.2	0%
Continued System Improvements	242.3	242.3	0%
Other			-
Total O&S	**929.5**	**929.5**	**0%**

Independent Cost Estimate Source

Event: MS-B
Type: Component Cost Position
Approved by: DASN , November 23, 2020

Current Cost Estimate Source

Type: Component Cost Position
Approved by: DASN(APB), DASN Budget, November 23, 2020
Note: The last approved estimate was completed in November 2020 at MS-B. The NAVAIRSYSCOM Cost and Schedule Analysis Department developed a Component ICE that was accepted as the CCP at MS-B. Updates since the MS-B estimate reflect updated inflation indices; although IOC has shifted from 2029 to 2032, updates are on hold pending a contract award.

Cost Estimate Variance Explanation

Annual Operating and Support Estimates by Cost Element

Next Generation Jammer Low Band

System: NGJ Low Band

Source for TY-CY Conversion: OSD Guidance and Inflation Indices

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 CY2020 ($M)
Total	**-**	**-**	**430.0**	**257.2**	**242.3**	**-**	**929.5**
2032			4.888	0.908	4.657		10.5
2033			9.099	1.550	4.657		15.3
2034			13.999	2.011	4.657		20.7
2035			18.741	3.937	4.658		27.3
2036			22.414	6.817	23.591		52.8
2037			27.296	6.135	22.675		56.1
2038			29.360	7.230	22.675		59.3
2039			28.788	22.721	22.675		74.2
2040			30.985	24.786	22.675		78.4
2041			33.071	21.808	22.675		77.6
2042			33.298	20.935	22.675		76.9
2043			34.914	20.915	22.675		78.5
2044			35.172	20.320	22.675		78.2
2045			31.797	19.918	3.741		55.5
2046			28.603	19.005	3.741		51.3
2047			21.388	18.496	3.741		43.6
2048			15.599	22.089	3.741		41.4
2049			10.547	17.603	3.741		31.9