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Department of Defense
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

Modernized Selected Acquisition Report (MSAR) Next Generation Jammer Mid-Band (NGJ Mid-Band)

FY 2025 President's Budget

Effective: December 31, 2023

Defense Acquisition Visibility Environment

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(U) Common DoD Abbreviations

\$B Billions of Dollars \$K Thousands of Dollars \$M Millions of Dollars ACAT Acquisition Category

Acq O&M Acquisition-Related Operations and Maintenance

ADM Acquisition Decision Memorandum APA Additional Performance Attribute APB Acquisition Program Baseline

APPN Appropriation

APUC Average Procurement Unit Cost
BA Budget Authority or Budget Activity

Blk Block BY Base Year

CAE Component Acquisition Executive

CAPE Cost Assessment and Program Evaluation
CARD Cost Analysis Requirements Description

CCE Component Cost Estimate
CCP Component Cost Position

CDD Capability Development Document

CLIN Contract Line Item Number
CPD Capability Production Document
CY Calendar Year or Constant Year
DAB Defense Acquisition Board
DAE Defense Acquisition Executive

DAES Defense Acquisition Executive Summary
DAVE Defense Acquisition Visibility Environment

DoD Department of Defense
DSN Defense Switched Network

EMD Engineering and Manufacturing Development

EVM Earned Value Management

FD Full Deployment

FDD Full-Deployment Decision
FMS Foreign Military Sales
FOC Full Operational Capability
FRP Full-Rate Production

FY Fiscal Year

FYDP Future Years Defense Program ICD Initial Capabilities Document ICE Independent Cost Estimate

Inc Increment

IOC Initial Operational Capability
IT Information Technology

JROC Joint Requirements Oversight Council

KPP Key Performance Parameter

KSA Key System Attribute

LRIP Low-Rate Initial Production MDA Milestone Decision Authority

MDAP Major Defense Acquisition Program

MILCON Military Construction
N/A Not Applicable
O Objective

O&M Operations and Maintenance

O&S Operating and Support

ORD Operational Requirements Document
OSD Office of the Secretary of Defense
PAUC Program Acquisition Unit Cost

PB President's Budget
PE Program Element

PEO Program Executive Officer

PM Program Manager

POE Program Office Estimate

R&MF Revolving and Management Funds

RDT&E Research, Development, Test, and Evaluation

SAR Selected Acquisition Report

SCP Service Cost Position

T Threshold

TBD To Be Determined

TY Then Year U.S. United States

U.S.C United States Code UCR Unit Cost Reporting

USD(A&S) Under Secretary of Defense (Acquisition and Sustainment)

(U) Program Description

Full Name

Next Generation Jammer Mid-Band

PNO 445

Lead Component

Department of the Navy

Joint Program

No

Adaptive Acquisition Pathway

Major Capability Acquisition

Acquisition Category

IC

Acquisition Status Active Acquisition Short Name NGJ Mid-Band

Milestone Decision Authority
Component Acquisition Executive

Program Executive Office

PEO Tactical Air

International Partners

Australia

Acquisition Type

Major Defense Acquisition Program

Acquired Systems NGJ Mid-Band

Mission

The Next Generation Jammer Mid-Band (NGJ Mid-Band) program is an electronic attack system that will provide significantly improved Airborne Electronic Attack (AEA) capabilities against advanced threats in the Mid-Band frequency range through enhanced agility and precision within jamming assignments, increased interoperability and expanded broadband capacity for greater threat coverage against a wide variety of radio frequency emitters. The Effective Isotropic Radiated Power (EIRP) in the NGJ Mid-Band system will be sufficient to provide robust jamming at standoff distances from Integrated Air Defense Systems (IADS) radars, communications, and data links. The NGJ Mid-Band system will augment and then replace the legacy AN/ALQ-99 Tactical Jamming System (fielded 1971) in the mid-band frequency range for the EA-18G, providing significantly improved radar and communication jamming performance as well as improved reliability and maintainability. The NGJ Mid-Band system will be required to engage sophisticated IADS and information operations (i.e., other electronic threat systems) in multiple areas of responsibility and across all phases of military operations. Threat operators and systems adapt and exploit available frequency ranges, employing techniques and tactics designed to confuse or otherwise defeat friendly AEA capabilities. In order to defeat these continuously evolving enemy radio frequency threats, the NGJ Mid-Band design must provide for sufficient EIRP to achieve threat systems engagement stand-off distances, support increased capacity (number of jamming assignments) as a result of increased threat density, and support agile employment by operators as well as provide a flexible system architecture that can be upgraded quickly to meet new mission demands.

(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 Mid-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

Since the last report, the NGJ Mid-Band program has completed the Operational Test Readiness Review (OTRR), fielded with the first fleet squadron (VAQ-133), and completed all hardware deliveries through LRIP I. Although the Operational Test (OT) Plan remains unsigned by the Director of Operational Test and Evaluation (DOT&E), data collection for OT is ongoing and nearly 700 flight hours were accrued by VX-9, the OT squadron, in 2023. A portion of OT has slid into the 2Q FY 2024 for Carrier Suitability and a live advanced Anti-Radiation Guided Missile shot. Clearing the full fight envelope was approximately 95% complete during 2023, with the remainder being for High Angle of Attack testing, which was delayed due to aircraft maintenance issues. IOC is expected to be declared in June 2024.

The program has assessed a schedule breach for IOC due to the failure to complete all OT events and a schedule breach for the FRP Decision Review due to the completion of the Beyond LRIP report. A CDD update removing the requirement to complete OT event prior to IOC declaration is with OPNAV for approval. The completion of the DOT&E Beyond LRIP report is paced by the Modeling and Simulation test results.

Improving system reliability remains the primary focus of the program. While below the requirement, hardware reliability is stable, and plans for improvement in production, hardware screening, and quality are underway. Software reliability issues with aircraft integration have been the primary degrader. During 2023, the program delivered 14 pod software builds in order to improve reliability and correct deficiencies. Mission planning issues were corrected and material defects with the Common Electronics Unit Radio Frequency cables were remedied. The development contract was extended to complete the final items necessary for the first deployment of NGJ Mid-Band with VAQ-133 in the 4Q FY 2024. Additional software builds will be delivered to continue to improve reliability, and flight test support will continue to complete the noise and vibration testing that is necessary to support the fatigue life analysis of the system. Further, the program is on track to deliver a Liquid Cooling System Air Removal system that is intended for use in the Carrier environment.

The LRIP III contract was awarded in March 2023, and is the largest lot of NGJ Mid-Band systems to date, with 11 United States Navy (USN) and four (4) Royal Australian Air Force (RAAF) shipsets on contract. The contract also includes two (2) training pods. At the end of 2023, the government was waiting on the delivery of the Lot 4 (intended Full Rate Production Lot) proposal. This lot is for nine (9) USN and four (4) RAAF shipsets.

The first Engineering Change Proposal (ECP) for NGJ Mid-Band was started in 2023 as a risk reduction trade study. This ECP is for NGJ Mid-Band Extended (MBX). MBX is designed to increase the upper frequency limit of NGJ Mid-Band in order to counter modern and rapidly evolving threats. The Non-Recurring Engineering effort for MBX is expected to be awarded in the 4Q FY 2024.

Funding Status: FY24 Congressional marks are as follows:

- APN-5
- FY 2023 Rescission (-\$4.673M)
- FY 2024 Support Equipment unjustified growth (-\$5.024M)
- FY 2024 Contract Savings (-\$2.520M)

Defense Cost and Resource Center Cost and Software Data Reporting (CSDR) Compliance Rating: Red Critical. At least one of the following CSDR deliverables is more than 12 months overdue: 1 legacy cost report, 2 software reports. The program is working with Boeing to bring the CSDR reporting into compliance for the aircraft integration portion of the effort. There are no significant software-related issues with this program at this time.

(U) History of Significant Developments Since Program Inception

| Date | Description |
|---------------|---|
| August 2023 | Initial Operational Capability Supportability Review (IOCSR) complete |
| August 2023 | First fleet squadron manned, trained and equipped with NGJ Mid-Band |
| April 2023 | OTRR complete. |
| March 2023 | A sole source Fixed Price Incentive contract was awarded to The Raytheon Company for LRIP III. This contract includes the delivery of 11 USN and four RAAF shipsets, and includes two (2) training pods. One (1) each for USN and RAAF. |
| August 2022 | First flight of production representative pods in a operationally representative environment |
| December 2021 | LRIP II contract option was awarded for delivery of an additional five (5) shipsets. |
| July 2021 | A 38-month sole source Fixed Price Incentive contract was awarded to The Raytheon Company for LRIP of the NGJ Mid-Band pods. This contract includes the delivery of three (3) LRIP I shipsets. |
| June 2021 | The NGJ Mid-Band program received Milestone C approval to enter LRIP with an authorized End-Item Quantity of 17 for LRIP. |
| August 2020 | First flight of NGJ Mid-Band pod on an EA-18G aircraft starts Developmental Flight Test program. |
| May 2020 | NGJ Production, Sustainment, and Follow-On Development Memorandum of Understanding signed between United States and Australia, expanding partnership between the two countries on NGJ. |
| November 2019 | A modification to the EMD contract was awarded to Raytheon for seven (7) System Demonstration Test Article shipsets (two (2) pods/shipset). |
| October 2017 | Australia became a cooperative partner for NGJ Mid-Band development. |
| April 2017 | Program completed Critical Design Review (CDR). |
| December 2016 | A sole source Cost Plus Incentive Fee (CPIF) contract modification was awarded to The Boeing Company for the integration of the NGJ Mid-Band pod onto the EA-18G aircraft. This effort is in support of the EMD phase of the NGJ Mid-Band program and includes the design and manufacturing of 15 engineering change proposal 6472 A kits, and the integration, demonstration and test of NGJ Mid-Band pods on the EA-18G aircraft. |
| April 2016 | The NGJ Mid-Band program received Milestone B approval to enter EMD. |
| April 2016 | A 56-month sole source CPIF contract was awarded to The Raytheon Company for the EMD phase. During the performance of this contract, the NGJ Mid-Band program will conduct a CDR and begin delivery of 15 Engineering Development Models that will be used for initial testing. |

(U) Schedule

(U) Schedule Events

| Events | | APB Change 2 (Milestone) 6/28/2021 Objective | (Cur 6/28/ | nange 2 rent) /2021 Threshold | Current Estimate 12/31/2023 | Actual |
|---|-----------------|--|---------------|--|-----------------------------------|-------------|
| Milestone A | MS A | Jul 2013 | Jul 2013 | Jan 2014 | - | 2 Jul 2013 |
| Preliminary Design Review | PDR | Oct 2015 | Oct 2015 | Apr 2016 | - | 29 Oct 2015 |
| Milestone B | MS B | Mar 2016 | Mar 2016 | Sept 2016 | - | 15 Apr 2016 |
| Critical Design Review | CDR | Mar 2017 | Mar 2017 | Sept 2017 | - | 27 Apr 2017 |
| Milestone C | MS C | Jun 2021 | Jun 2021 | Jun 2021 | - | 8 Jun 2021 |
| Operational Test Readiness Review | IOT&E | Apr 2023 | Apr 2023 | Oct 2023 | - | 17 Apr 2023 |
| Initial Operational Capability | IOC | Sept 2023 | Sept 2023 | Mar 2024 | Jun 2024* | - |
| Full Rate Production Decision Review | FRP Decision | Nov 2023 | Nov 2023 | May 2024 | Aug 2024* | - |

^{*} Baseline Deviation

Notes

None

Schedule Baseline Deviation Explanation

IOC estimate changed from September 2023 to June 2024 due to the completion of Operational Test data collection. FRP estimate changed from November 2023 to August 2024 to allow for thorough analysis of the test data for the Beyond LRIP report. The MDA was notified of a schedule deviation. A revised APB will be submitted for approval at FRP.

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

| Event | Date | Description |
|-------|-----------|--|
| FRP | 5/31/2024 | The MDA has been notified of a schedule deviation. |

(U) Performance

(U) Performance Attributes

| Materiel Availability | | | KPP |
|--------------------------------|-----------|----------|-----|
| Current Estimate 12/31/2023 | | >=.90 | |
| Demonstrated Performance - | | - | |
| APB Change 2 (Current) | Objective | REDACTED | |
| 6/28/2021 | Threshold | REDACTED | |
| APB Change 2 (Milestone) | Objective | REDACTED | |
| 6/28/2021 | | | |
| Operational Availability | | | KPP |
| Current Estimate 12/31/2023 | | >=0.37 | |
| Demonstrated Performance - | | - | |
| APB Change 2 (Current) | Objective | REDACTED | |
| 6/28/2021 | Threshold | REDACTED | |
| APB Change 2 (Milestone) | Objective | REDACTED | |
| 6/28/2021 | | | |

(U) Requirement Source:

Sponsor(s): None

1. Document Type Not Provided

Notes: Capability Development Document dated November 18, 2020

Notes

- · Operational Availability remains low due to early failures discovered with new assets and software failures driven by integration issues with the EA-18G and Array Power Supplies. Quality issues are being addressed with the manufacturing facility and suppliers, with additional screening processes being put in place. Software corrections are currently in development and will be introduced before the completion of Initial Operational Test and Evaluation.
- Materiel Availability cannot be demonstrated until Materiel Support Decision, which is expected in FY 2027. Operational Availability will be demonstrated at the completion of operational test.

Performance Deviation Explanation

None

(U) Acquisition Budget Estimate

(U) Total Acquisition Estimates and Quantities

| Category (\$M) Base Year: 2016 | APB Change 2 (Milestone) 6/28/2021 CY\$ obs Objective | APB Change 2 (Current) 6/28/2021 CY\$ obs Objective / Threshold | | Current Estimate PB 2025 CY\$ obs / TY\$ obs | |
|--------------------------------|---|---|---------|--|----------|
| RDT&E | 3,899.9 | 3,899.9 | 4,289.9 | 3,915.3 | 4,234.4 |
| Procurement | 3,939.5 | 3,939.5 | 4,333.5 | 4,197.5 | 5,976.8 |
| MILCON | 7.1 | 7.1 | 7.8 | 6.7 | 7.9 |
| O&M | 0.0 | 0.0 | 0.0 | - | - |
| R&MF | - | - | - | - | - |
| Total Acquisition | 7,846.5 | 7,846.5 | | 8,119.5 | 10,219.1 |
| Program Acquisition Unit Cost | 58.122 | 58.122 | 63.934 | 60.145 | 75.697 |
| Average Procurement Unit Cost | 30.539 | 30.539 | 33.593 | 32.539 | 46.332 |
| Program End-Item Quantity | | | | | |
| Development | 6 | 6 | | 6 | |
| Procurement | 129 | 129 | | 129 | |
| O&M-Acquired | - | - | | - | |

Budget Notes

PB 2025 funding profile includes Next Generation Jammer Mid-Band Extended development beginning in FY 2024.

Quantity Notes

None

Cost Baseline Deviation Explanation

None

(U) Risk and Sensitivity Analysis

Current Procurement Estimate Risks (12/31/2023)

After review of the programmatic and technical baseline at Milestone C, the MDA directed NGJ Mid-Band 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 production estimate was determined to be highly sensitive to the array cost. The array costs were estimated based on actual data from NGJ Mid-Band using Learn and Rate curves from historical production data.

During the negotiations of LRIP III contract there was a significant increase to price due to sub-vendor material cost, extended procurement times, and manpower rate increases. If price increases continue in future production lots, then NGJ Mid-Band shipsets unit price will increase, and individual lot quantities may have to be reduced, resulting in delayed fleet fielding.

Current Baseline Risks (6/28/2021)

None

(U) Unit Costs

(U) Current Estimate Compared with Current Baseline

| Category (CY\$M) Base Year: 2016 | Current Baseline 06/28/2021 | Current Estimate PB 2025 | % Change |
|----------------------------------|--------------------------------|-----------------------------|----------|
| Program Acquisition Unit Cost | | | |
| Acquisition Cost | 7,846.5 | 8,119.5 | |
| Program Quantity | 135 | 135 | |
| PAUC | 58.122 | 60.145 | 3.48% |
| Average Procurement Unit Cost | | | |
| Procurement Cost | 3,939.5 | 4,197.5 | |
| Procurement Quantity | 129 | 129 | |
| APUC | 30.539 | 32.539 | 6.55% |

(U) Current Estimate Compared with Original Baseline

An Original Cost Baseline and Acquisition Budget Estimate must be defined to display this comparison

Notes

None

(U) Life-Cycle Costs

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

| Category (\$M) Base Year: 2016 | APB Change 2 (Milestone) 6/28/2021 CY\$ obs Objective | APB Change 2 (Current) 6/28/2021 CY\$ obs Objective / Threshold | | Current I CY\$ obs / | |
|--------------------------------|---|---|---------|-------------------------|---------|
| Total O&S | 1,431.3 | 1,431.3 | 1,574.4 | 1,451.1 | 2,405.1 |
| Total Disposal | - | - | - | 2.3 | 4.9 |

(U) Current Cost Estimate Sources

Operating and Support Cost

Type: Component Cost Position

Approved by: DASN (AP&B), DASN Budget, May 26, 2021

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: 2016 | | | | | | | |
|-------------------------|------------------------|--------------------|-------------|-----------------------|--------------------------------------|-------|---------|
| System | Unit-Level Manpower | Unit Operations | Maintenance | Sustaining Support | Continuing System Improvements | Other | Total |
| NGJ Mid-Band | - | - | 759.2 | 287.9 | 404.0 | - | 1,451.1 |
| Program | • | - | 759.2 | 287.9 | 404.0 | - | 1,451.1 |

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

| (CY\$M) Base Yea | (CY\$M) Base Year: 2016 | | | | | | |
|------------------------|-------------------------|--------------------|-------------|-----------------------|--------------------------------------|-------|-------|
| System | Unit-Level Manpower | Unit Operations | Maintenance | Sustaining Support | Continuing System Improvements | Other | Total |
| NGJ Mid-Band | - | - | 0.4 | 0.2 | 0.2 | - | 0.8 |
| 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 Mid-Band | 135 | 20.0 | Shipset = 2 Pods | 2024 - 2050 |
| ALQ-99 (Antecedent) | 180 | 60.0 | Shipset = 2 Pods | 1971 - 2035 |

Additional O&S Estimate Assumptions

- Contractor Logistics Support / Interim Contractor Support covering the total system through the EMD until four (4) years after IOC (Initial).
- Product Support Strategy will consider Organizational, Intermediate, and Depot level maintenance capabilities; Organic maintenance support (future). Interim Support Strategy: Organizational (O) Level to Original Equipment Manufacturer.
- Sustainment Strategies for AN/ALQ-249(V)1: Long Term Support Strategy includes transition into Organic capability utilizing Captains of Industry, Public Private Partnerships, and Performance Based Agreements supported by analysis.
- The unit of measure (system) is defined as a shipset, which consists of 2 pods.
- Pod usage is tied to the EA-18G platform. The pod structure service life is limited to the
 Integrated Structure Assembly includes an overhaul at 4,000 hours and an end of usable life
 at 7,200 hours. The estimated pod structure life is sufficient to meet the program of record
 and support the current EA-18G Program of Record as estimated attrition does not occur
 prior to EA-18G program.
- Total System Operating Years: 1,808. Operating years are calculated based on Mid-Band units required to support the EA-18G per Program of Record.

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 Mid-Band system, and is not normalized to specific Mid-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, 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

0&S Annual Cost Calculation Memo

Annual O&S Costs = Unitized cost x Total Operating Years x $1M = .803 \times 1808 \times 1000,000 = $1451.1M$

(U) Technologies and Systems Engineering

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

| Event | Date | Description |
|-------|-----------|---|
| FRP | 5/31/2024 | If system reliability remains low, then the NGJ Mid-Band program will experience decreased system operational availability, increased maintenance times for the fleet, and higher repair costs. |

(U) Performing Activities and Contracts

(U) External Government Activities

None

(U) Contracts and Efforts

| Contract Title | Contract Number / Effort | Contractor | Phase |
|------------------------------------|--------------------------|------------|------------|
| NGJ Mid-Band LRIP I and LRIP II | N00019-21-C-0053 / 1 | Raytheon | Production |
| NGJ Mid-Band LRIP III | N00019-23-C-0037 / 1 | Raytheon | Production |

| (U) Contract and Effort Identification, Price, Quantity and Perform | nance |
|---|-------|
|---|-------|

Contract Number: N00019-21-C-0053 Order Number:

Contract Title: NGJ Mid-Band LRIP I and Strategy: FAR 15: Negotiated

LRIP II Contracts

CAGE: 4U884 - Raytheon Contracting Office: NAVAIR

City, State/Province: El Segundo, CA

Effort Number: 1 Supported Phase: Production

Type: Fixed-Price Incentive (Firm Award Date: July 2, 2021

Target)

arget)

Latest Modification Date: January 18, 2024 Definitization Date: July 2, 2021

Latest Modification No.: P00023 Work Start Date: July 2, 2021

Technical Data Rights: Unlimited Rights

Notes: The Contract Data Requirements List (CDRL) includes Cost and Software Data

Reporting (CSDR). Contractor Performance Report (CPR) data effective January

2024.

| \$1 | Price (TY M) / Ceiling | \$1 | Price (TY M) ' Ceiling | Estimate at Completion (TY \$M) Contractor / PM | | Initial Quantity | Current Quantity | Delivered Quantity |
|-------|------------------------------|-------|------------------------------|---|-------|---------------------|---------------------|-----------------------|
| 171.6 | 179.2 | 420.9 | 414.6 | 424.0 | 426.3 | 3 | 8 | 3 |

Work Completed (%): 86.91% Cost Variance (TY\$M): -4.2 Schedule Variance (TY\$M): -10.6

Factors Contributing to Cost Variance and Projected Effects on Program Costs

Unfavorable Cumulative Cost Variance is driven by unanticipated risk associated with hardware engineering (Non-Recurring Engineering (NRE)) and production hardware support. The large amount of unfavorable cost performance has been off-set by the favorable performance due to delayed onboarding of Program Management Office resources from System Demonstration Test Article to LRIP and lower than expected engineering labor for supplier support levels.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

Unfavorable Cumulative Schedule Variance driven by late delivery of LRIP II hardware (Arrays, Common Electronics Unit, and Power Distribution Unit) to the pod and late Mid-Band material. In addition to unanticipated complexities of the NRE activities associated with Servo Electronic Unit Instruction Random Access Memory design updates, Drain Voltage Power Supply, Array Control Interface, and Frequency Converter Module Circuit Card Assembly updates.

| (U) Contract and Effort Ident | tification, Price, Quantity and P | Performance | | | |
|-------------------------------|--|----------------------|---------------------------------|--|--|
| Contract Number: | N00019-23-C-0037 | Order Number: | - | | |
| Contract Title: | NGJ Mid-Band LRIP III | Strategy: | FAR 15: Negotiated Contracts | | |
| CAGE: | 4U884 - Raytheon | Contracting Office: | NAVAIR | | |
| City, State/Province: | El Segundo, CA | | | | |
| | | | | | |
| Effort Number: | 1 | Supported Phase: | Production | | |
| Туре: | Fixed-Price Incentive (Firm Target) | Award Date: | March 30, 2023 | | |
| Latest Modification Date: | January 19, 2024 | Definitization Date: | March 30, 2023 | | |
| Latest Modification No.: | P00006 | Work Start Date: | March 30, 2023 | | |
| Technical Data Rights: | Unlimited Rights | | | | |
| Notes: | The LRIP III contract includes 11 United States Navy (USN) and four (4) Royal Australian Air Force (RAAF) shipsets and two (2) training pods. One (1) each for | | | | |

The Contract Data Requirements List (CDRL) includes Cost and Software Data Reporting (CSDR). Contractor Performance Report (CPR) data effective January 2024.

| Initial P \$N Target / | ` | • | Price (TY M) Ceiling | Estimate at Co \$N Contrac | И) . | Initial Quantity | Current Quantity | Delivered Quantity |
|------------------------------|-------|-------|----------------------------|----------------------------------|-------|---------------------|---------------------|-----------------------|
| 650.4 | 660.4 | 675.3 | 674.8 | 686.7 | 681.1 | 15 | 15 | - |

Work Completed (%): 21.46% Cost Variance (TY\$M): +7.6 Schedule Variance (TY\$M): +105.2

Factors Contributing to Cost Variance and Projected Effects on Program Costs

USN and RAAF.

Unfavorable Cumulative Cost Variance is driven by lower than expected program management support to date and positive attrition rates due to early receipt of material.

Factors Contributing to Schedule Variance and Projected Effects on Program Schedule

Unfavorable Cumulative Schedule Variance driven by early receipt of material which is early to need date and excess material pegged to LRIP III from LRIP I/II.

(U) Production

(U) Low-Rate Initial Production

| | Original LRIP Determination | Current LRIP Determination |
|----------------------------|------------------------------|---|
| Total LRIP Quantity | 30 | 34 |
| Date | 4/5/2016 | 10/6/2023 |
| Reference | NGJ Mid-Band Milestone B ADM | NGJ Mid-Band Authorized LRIP Quantity Correction ADM |
| LRIP Period | FY 2019 - 2021 | FY 2021 - 2023 |
| Total Procurement Quantity | 131 | 129 |
| LRIP Percentage of Total | 22.9% | 26.4% |

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 Mid-Band systems in support of Initial Operational Test and Evaluation. These assets are needed to ensure adequate and efficient manufacturing capability while maintaining the industrial base. The LRIP quantity will permit an orderly increase to ramp up for FRP and reduce risk. This will posture the current planned NGJ Mid-Band production rate maximum/optional economic rate of 14 shipsets per year during FRP.

LRIP Notes

- ADM signed by MDA on March 28, 2023, approving NGJ Mid-Band quantity up to 19 shipsets.
- ADM signed by MDA on October 6, 2023, approving NGJ Mid-Band quantity up to 34 shipsets due to delay in operational test and risk mitigation for a production gap.

(U) Deliveries and Expenditures

(U) Acquisition Funding

| | Total Estimate | Actual to Date | Actual, Percent Complete |
|--------------------------|----------------|----------------|--------------------------|
| Years Appropriated | 28 | 15 | 53.6% |
| Appropriations (TY, \$M) | 10,219.1 | 4,984.2 | 48.8% |
| Expenditures (TY, \$M) | 10,219.1 | 4,504.6 | 44.1% |

(U) End Items Delivered

| | Total Required | Planned to Date | Actual to Date | Actual, Percent Complete |
|--------------|----------------|-----------------|----------------|-----------------------------|
| Development | 6 | | | |
| NGJ Mid-Band | | 6 | 6 | |
| Procurement | 129 | | | |
| NGJ Mid-Band | | 4 | 4 | |
| Total | 135 | 10 | 10 | 7.4% |

Notes

None

(U) International Program Aspects

General Memo

The NGJ Mid-Band program is executing 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) was signed May 21, 2020, enabling establishment of a cooperative production line and life-cycle sustainment partnership for the NGJ weapon system.

Exportability and Business Issues

Both nations committed financial and non-financial resources to the NGJ Mid-Band program, providing flexibility for budget planning, ability to leverage each nation's workforce, and ability to utilize equipment and facilities in both nations. Under the ICP, both the USN and RAAF benefit from commonality of configuration to ensure interoperability of the NGJ Mid-Band system.

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

Program Protection: Technology Security and Foreign Disclosure Issues

NGJ Mid-Band 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 Mid-Band 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 Integrated Product Team which includes Subject Matter Experts from Cybersecurity, Software, Product Support, Systems Engineering, Test and Evaluation, Software, and Program Security.

(U) Agreements

| Activity Date | Туре | Agreement Number | International Partner(s) | Quantity | Funding (TY\$M) |
|----------------------|---------|------------------|--------------------------|----------|-----------------|
| 5/21/2020 | ICP MOU | N/A | Australia (AT) | - | - |
| 5/21/2020 | ICP MOU | N/A | Australia (AT) | 4 | 194.3 |
| 10/18/2017 | ICP MOU | N/A | Australia (AT) | - | 145.0 |

(U) Agreement Information

Partner(s): Australia (AT)

Activity Date: 5/21/2020

Type: International Cooperative Program: Memorandum of Agreement Number: N/A

Understanding

Notes: None

Australia (AT) Fiscal Year Funding (TY\$M) Quantity Total

(U) Agreement Information

Partner(s): Australia (AT) **Activity Date:** 5/21/2020

Type: International Cooperative Program: Memorandum of Agreement Number: N/A

Understanding

Under the PSFD MOU, ADOD provided funding for the procurement of four (4) NGJ-MB shipsets, Notes:

support equipment, spares, and training under the LRIP III contract.

Australia (AT)

| Fiscal Year | Funding (TY\$M) | Quantity | |
|-------------|-----------------|----------|--|
| 2023 | 194.3 | 4 | |
| Total | 194.3 | 4 | |

(U) Agreement Information

Partner(s): Australia (AT) 10/18/2017 **Activity Date:**

International Cooperative Program: Memorandum of Type: **Agreement Number:** N/A

Understanding

As a Cooperative program, the NGJ-MB MOU provided \$145.0M of shared funding contributions Notes:

from the Royal Australian Air Force (RAAF) towards the development of the NGJ-MB system. As

such, MOU shared funding does not directly result in end items for the RAAF.

Australia (AT)

| Fiscal Year | Funding (TY\$M) | Quantity |
|-------------|-----------------|----------|
| 2018 | 30.0 | - |
| 2019 | 42.9 | - |
| 2020 | 5.0 | - |
| 2021 | 27.1 | - |
| 2022 | 40.0 | - |
| Total | 145.0 | - |

UNCLASSIFIED



Modernized Selected Acquisition Report Supplement

Next Generation Jammer Mid-Band (NGJ Mid-Band)

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

UNCLASSIFIED

MSAR Supplement Sections

Program Description

Program Use of the Adaptive Acquisition Framework

Technologies and Systems Engineering

Funding Sources (Acquisition)

Funding Sources (Operating and Support)

Acquisition Estimate and Quantity Summary

Annual Acquisition Estimates by Appropriation Account

Acquired System Annual End-Item Quantities by Appropriation Account

Nuclear Costs

Operational Fielding Plan

O&S Independent Cost Estimate

Annual Operating and Support Estimates by Cost Element

Program Description

Full Name
Next Generation Jammer Mid-Band
NGJ Mid-Band

PNO Lead Component

445 Navy

AAF Pathway Acquisition Type

MCA MDAP

Acquired Systems

NGJ Mid-Band

Related Programs

| Full Name | PNO | Pathway | Туре | ACAT/ BCAT | Acquisition Status | Costs i | |
|-----------|-----|---------|------|---------------|--------------------|---------|--|
| | | | | | | | |

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 Mid-Band

Major Software Efforts

| Title | Status | Fielding Date | Description |
|-------|--------|---------------|-------------|
| | | | · |

Major Engineering Changes

| Title | Original Need Date | Description, Rationale and Program Impacts |
|-------------------------|-----------------------|---|
| Mid-Band Extended (MBX) | Dec 2027 | MBX will be developed as an Engineering Change Proposal to the current NGJ Mid-Band system that will extend the frequency coverage to counter key emerging threats. MBX provides increased Airborne Electronic Attack capabilities to the warfighter to address critical threats in the radio frequency spectrum. |

Funding Sources (Acquisition)

Acquisition Funding Notes

Funding includes Next Generation Jammer Mid-Band Extended (MBX) development beginning in FY 2024.

Next Generation Jammer Mid-Band

| Category | Account | ВА | Line Item | Program Element | RDT&E Project | Shared | Sunk |
|-------------|------------|-------|---|--------------------|----------------------------------|--------|------|
| RDT&E | 1319N | 05 | 0604274N - Next Generation Jammer (NGJ) | 0604274N | 0557 - Next Generation Jammer | | |
| Note: | Funding in | clude | s Next Generation Jammer Mid-Band Ex | tended (MBX) | development. | | |
| Procurement | 1506N | 05 | 0591 - Next Generation Jammer (NGJ) | 0204154N | - | | |
| MILCON | 1205N | 01 | 00620258 - Next Generation Jammer Facility | 0712876N | - | | Х |

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 PRE and PRL funding within the 1A4N BLI. PRE and PRL are budgeted through the PB 2025 FYDP.

Next Generation Jammer Mid-Band

| Category | Account | ВА | 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 Mid-Band

| Acquisiton Estimates | | Current Base Year | Original Base Year | Report Fiscal Year |
|----------------------|----------|--------------------------|--------------------|--------------------|
| Category PB 2025 | TY (\$M) | CY2016 (\$M) | CY2016 (\$M) | CY2024 (\$M) |
| RDT&E | 4,234.4 | 3,915.3 | 3,915.3 | 4,968.7 |
| Procurement | 5,976.8 | 4,197.5 | 4,197.5 | 5,326.7 |
| MILCON | 7.9 | 6.7 | 6.7 | 8.5 |
| O&M | - | - | - | - |
| | | | | |
| Total Acquisition | 10,219.2 | 8,119.5 | 8,119.5 | 10,304.0 |
| PAUC | 75.698 | 60.145 | 60.145 | 76.326 |
| APUC | 46.332 | 32.539 | 32.539 | 41.293 |

Acquisiton End-Item Quantities

| System | PB 2025 | Development | Procurement |
|-----------|---------|-------------|-------------|
| NGJ Mid-B | and | 6 | 129 |
| Total | | 6 | 129 |

Unit Description

AN/ALQ-249 Next Generation Jammer Mid-Band (NGJ-MB) Shipset (2 pods per shipset).

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

| | | | | gram | | J , (| | То | |
|---------------|---------|-------|-------|-------|-------|--------------|-------|----------|----------|
| Appropriation | Prior | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | Complete | Total |
| RDT&E | 3,956.4 | 40.5 | 86.7 | 66.0 | 58.4 | 26.4 | - | - | 4,234.4 |
| Procurement | 1,015.1 | 503.6 | 455.9 | 447.4 | 478.3 | 417.3 | 423.3 | 2,236.0 | 5,976.8 |
| MILCON | 7.9 | - | - | - | - | - | - | - | 7.9 |
| O&M | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | |
| PB 2025 Total | 4,979.5 | 544.1 | 542.6 | 513.4 | 536.7 | 443.7 | 423.3 | 2,236.0 | 10,219.2 |

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Next Generation Jammer Mid-Band

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

| 1319N - Rese | 1319N - Research, Development, Test & Eval, Navy | | | | | | |
|----------------|--|------------------|------------------|-----------------------|--|--|--|
| fiscal year | Other/ Unallocated | Total TY(\$M) | Weighted Rate | Total CY2016 (\$M) | | | |
| Total | 4,234.4 | 4,234.4 | - | 3,915.3 | | | |
| 2010 | 111.725 | 111.7 | 0.927776 | 120.4 | | | |
| 2011 | 83.680 | 83.7 | 0.949929 | 88.1 | | | |
| 2012 | 154.873 | 154.9 | 0.965683 | 160.4 | | | |
| 2013 | 153.311 | 153.3 | 0.975823 | 157.1 | | | |
| 2014 | 153.123 | 153.1 | 0.989612 | 154.7 | | | |
| 2015 | 221.149 | 221.1 | 1.002063 | 220.7 | | | |
| 2016 | 373.502 | 373.5 | 1.020662 | 365.9 | | | |
| 2017 | 558.349 | 558.3 | 1.039759 | 537.0 | | | |
| 2018 | 584.545 | 584.5 | 1.065227 | 548.8 | | | |
| 2019 | 345.578 | 345.6 | 1.085743 | 318.3 | | | |
| 2020 | 480.684 | 480.7 | 1.125670 | 427.0 | | | |
| 2021 | 435.381 | 435.4 | 1.176262 | 370.1 | | | |
| 2022 | 235.882 | 235.9 | 1.237713 | 190.6 | | | |
| 2023 | 64.658 | 64.7 | 1.274560 | 50.7 | | | |
| 2024 | 40.477 | 40.5 | 1.303656 | 31.0 | | | |
| 2025 | 86.721 | 86.7 | 1.331310 | 65.1 | | | |
| 2026 | 65.986 | 66.0 | 1.359268 | 48.5 | | | |
| 2027 | 58.423 | 58.4 | 1.387812 | 42.1 | | | |
| 2028 | 26.399 | 26.4 | 1.416956 | 18.6 | | | |

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Next Generation Jammer Mid-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 CY2016 (\$M) |
| Total | 4,712.8 | - | 103.2 | 225.7 | 271.7 | 663.5 | 5,976.8 | - | 4,197.5 |
| 2010 | | | | | | | - | 0.943810 | - |
| 2011 | | | | | | | - | 0.962541 | - |
| 2012 | | | | | | | - | 0.976381 | - |
| 2013 | | | | | | | - | 0.986832 | - |
| 2014 | | | | | | | - | 0.999725 | - |
| 2015 | | | | | | | - | 1.015397 | - |
| 2016 | | | | | | | - | 1.037900 | - |
| 2017 | | | | | | | - | 1.060055 | - |
| 2018 | | | | | | | - | 1.081494 | - |
| 2019 | | | | | | | - | 1.111329 | - |
| 2020 | | | | | | | - | 1.155166 | - |
| 2021 | 130.784 | | | 29.181 | 7.621 | 25.328 | 192.9 | 1.208151 | 159.7 |
| 2022 | 162.927 | | 39.989 | 40.803 | 8.701 | 43.776 | 296.2 | 1.255716 | 235.9 |
| 2023 | 386.595 | | 9.507 | 67.542 | 16.834 | 45.537 | 526.0 | 1.290388 | 407.6 |
| 2024 | 326.669 | | | 84.758 | 43.658 | 48.525 | 503.6 | 1.319260 | 381.7 |
| 2025 | 338.821 | | | 2.658 | 63.152 | 51.253 | 455.9 | 1.347197 | 338.4 |
| 2026 | 369.168 | | | 0.726 | 37.379 | 40.093 | 447.4 | 1.375488 | 325.2 |
| 2027 | 376.920 | | | | 59.414 | 41.967 | 478.3 | 1.404373 | 340.6 |
| 2028 | 356.010 | | | | 12.100 | 49.186 | 417.3 | 1.433865 | 291.0 |
| 2029 | 363.088 | | | | 9.170 | 51.020 | 423.3 | 1.463976 | 289.1 |
| 2030 | 370.714 | | | | 6.901 | 37.036 | 414.7 | 1.494720 | 277.4 |
| 2031 | 378.498 | | | | 6.787 | 36.752 | 422.0 | 1.526109 | 276.5 |
| 2032 | 386.447 | | | | | 37.523 | 424.0 | 1.558157 | 272.1 |
| 2033 | 394.563 | | | | | 29.816 | 424.4 | 1.590878 | 266.8 |
| 2034 | 371.590 | | | | | 30.443 | 402.0 | 1.624287 | 247.5 |
| 2035 | | | 12.468 | | | 31.082 | 43.6 | 1.658397 | 26.3 |
| 2036 | | | 20.400 | | | 31.735 | 52.1 | 1.693223 | 30.8 |
| 2037 | | | 20.831 | | | 32.401 | 53.2 | 1.728781 | 30.8 |

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Next Generation Jammer Mid-Band

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 CY2016 (\$M) | | | | |
| Total | 7.9 | 7.9 | - | 6.7 | | | | |
| 2010 | | - | 0.949386 | - | | | | |
| 2011 | | - | 0.970712 | - | | | | |
| 2012 | | - | 0.985054 | - | | | | |
| 2013 | | - | 0.999086 | - | | | | |
| 2014 | | - | 1.014072 | - | | | | |
| 2015 | | - | 1.042654 | - | | | | |
| 2016 | | - | 1.066954 | - | | | | |
| 2017 | | - | 1.094436 | _ | | | | |
| 2018 | | - | 1.135052 | - | | | | |
| 2019 | 7.930 | 7.9 | 1.178716 | 6.7 | | | | |

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

Next Generation Jammer Mid-Band

| 1319N - Research, Development, Test & Eval, Navy | | | | | | |
|--|--------------|--|--|-------|---|--|
| | | | | | | |
| fiscal year | NGJ Mid-Band | | | Total | | |
| Total | 6 | | | | 6 | |
| Undistributed | | | | | - | |
| 2020 | 6 | | | | 6 | |

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

Next Generation Jammer Mid-Band

| | 1506N - Aircraft Procurement, Navy | | | | | | |
|---------------|------------------------------------|-------|--|--|--|--|--|
| fiscal year | NGJ Mid-Band | Total | | | | | |
| Total | 129 | 129 | | | | | |
| Undistributed | | - | | | | | |
| 2020 | | - | | | | | |
| 2021 | 3 | 3 | | | | | |
| 2022 | 5 | 5 | | | | | |
| 2023 | 11 | 11 | | | | | |
| 2024 | 9 | 9 | | | | | |
| 2025 | 10 | 10 | | | | | |
| 2026 | 11 | 11 | | | | | |
| 2027 | 11 | 11 | | | | | |
| 2028 | 10 | 10 | | | | | |
| 2029 | 10 | 10 | | | | | |
| 2030 | 10 | 10 | | | | | |
| 2031 | 10 | 10 | | | | | |
| 2032 | 10 | 10 | | | | | |
| 2033 | 10 | 10 | | | | | |
| 2034 | 9 | 9 | | | | | |

Nuclear Costs

Next Generation Jammer Mid-Band

Program's Use of Department of Energy ResourcesNone

Operational Fielding Plan

Next Generation Jammer Mid-Band

System: NGJ Mid-Band

Fielding and Inventory Notes

Fielding asset allocation and squadron transition priorities are tiered readiness based. Initial squadron fielding will be three systems (shipsets) allowing for basic capability. As allowed by asset supply, Squadrons will be allocated at levels equal to full allocation of five systems (shipsets). No limits are placed on operational squadron transitions per fiscal year.

NGJ Mid-Band Fielding Plan and Inventory

| fiscal | 24 | Fills | F | B | |
|--------|-------|-------|-------------|--------------|-----------|
| year | Store | Field | Expend/Loss | Decommission | Inventory |
| 2023 | | | | | 7 |
| 2024 | | 7 | | | 14 |
| 2025 | | 3 | | | 17 |
| 2026 | | 8 | | | 25 |
| 2027 | | 9 | | | 34 |
| 2028 | | 13 | | | 47 |
| 2029 | | 11 | | | 58 |

O&S Independent Cost Estimate

Next Generation Jammer Mid-Band

Independent and Current Cost Estimate Comparison

| Category | CY2016 (\$M) | Independent Cost Estimate 5/26/2021 | Current Estimate 5/26/2021 | Variance with ICE (%) |
|----------------|------------------|--|----------------------------|-----------------------|
| Unit-Level Mar | npower | - | | - |
| Unit Operation | S | - | | - |
| Maintenance | | 759.2 | 759.2 | 0% |
| Sustaining Sur | pport | 287.9 | 287.9 | 0% |
| Continued Sys | tem Improvements | 404.0 | 404.0 | 0% |
| Other | | | | - |
| Total O&S | | 1,451.1 | 1,451.1 | 0% |

Independent Cost Estimate Source

Event: Milestone C

Type: Component Cost Position

Approved by: DASN (AP&B), DASN (Budget), May 26, 2021

Note: The next ICE will be provided for FRP Decision Review.

Current Cost Estimate Source

Type: Component Cost Position

Approved by: DASN (AP&B), DASN (Budget), May 26, 2021

Note: The last approved estimate was completed at Milestone C in May 2021. The

NAVAIR Cost and Schedule Analysis Department developed a Component ICE that

Cost Estimate Variance Explanation

Annual Operating and Support Estimates by Cost Element

Next Generation Jammer Mid-Band

System: NGJ Mid-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 CY2016 (\$M) | |
| Total | - | - | 759.2 | 287.9 | 404.0 | - | 1,451.1 | |
| 2024 | | | 7.567 | 3.244 | 3.710 | | 14.5 | |
| 2025 | | | 11.139 | 4.363 | 3.710 | | 19.2 | |
| 2026 | | | 23.954 | 6.116 | 3.710 | | 33.8 | |
| 2027 | | | 26.559 | 9.660 | 3.710 | | 39.9 | |
| 2028 | | | 33.141 | 10.327 | 20.757 | | 64.2 | |
| 2029 | | | 39.842 | 11.543 | 20.757 | | 72.1 | |
| 2030 | | | 34.722 | 15.525 | 20.757 | | 71.0 | |
| 2031 | | | 36.328 | 16.940 | 20.757 | | 74.0 | |
| 2032 | | | 36.818 | 15.218 | 20.757 | | 72.8 | |
| 2033 | | | 35.362 | 14.612 | 20.757 | | 70.7 | |
| 2034 | | | 36.203 | 14.915 | 20.757 | | 71.9 | |
| 2035 | | | 41.570 | 15.180 | 20.757 | | 77.5 | |
| 2036 | | | 42.108 | 16.032 | 20.757 | | 78.9 | |
| 2037 | | | 47.155 | 14.631 | 20.757 | | 82.5 | |
| 2038 | | | 48.280 | 14.896 | 20.757 | | 83.9 | |
| 2039 | | | 46.777 | 15.748 | 20.757 | | 83.3 | |
| 2040 | | | 46.232 | 16.619 | 20.757 | | 83.6 | |
| 2041 | | | 40.164 | 15.180 | 20.757 | | 76.1 | |
| 2042 | | | 30.093 | 13.232 | 20.757 | | 64.1 | |
| 2043 | | | 32.994 | 11.258 | 20.757 | | 65.0 | |
| 2044 | | | 23.420 | 9.925 | 20.757 | | 54.1 | |
| 2045 | | | 20.141 | 8.057 | 20.757 | | 49.0 | |
| 2046 | | | 13.901 | 5.638 | 3.109 | | 22.6 | |
| 2047 | | | 3.689 | 2.843 | 3.109 | | 9.6 | |
| 2048 | | | 0.513 | 2.078 | 3.109 | | 5.7 | |
| 2049 | | | 0.513 | 2.078 | 3.109 | | 5.7 | |
| 2050 | | | - | 2.078 | 3.109 | | 5.2 | |