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Nov 18, 2024

Department of Defense  
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

# **Modernized Selected Acquisition Report (MSAR)**

## **Offensive Anti-Surface Warfare Increment 1 (Long Range Anti-Ship Missile) (OASuW Inc 1 (LRASM))**

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**

|  |   |
|--|---|
| <b>Full Name</b><br>Offensive Anti-Surface Warfare Increment 1<br>(Long Range Anti-Ship Missile) | <b>Short Name</b><br>OASuW Inc 1 (LRASM)                                  |
| <b>PNO</b><br>449  | <b>Milestone Decision Authority</b><br>Component Acquisition Executive    |
| <b>Lead Component</b><br>Department of the Navy  | <b>Program Executive Office</b><br>PEO Unmanned Aviation & Strike Weapons |
| <b>Joint Program</b><br>Yes  | <b>Supporting Components</b><br>Department of the Air Force               |
| <b>Adaptive Acquisition Pathway</b><br>Major Capability Acquisition                              | <b>International Partners</b><br>Australia                                |
| <b>Acquisition Category</b><br>IC  | <b>Acquisition Type</b><br>Major Defense Acquisition Program              |
| <b>Acquisition Status</b><br>Active Acquisition  | <b>Acquired Systems</b><br>LRASM  |

**Mission**

The U.S. Navy is leveraging Defense Advanced Research Projects Agency (DARPA) demonstration efforts to deliver an air-launched Offensive Anti-Surface Warfare (OASuW) Inc 1 weapon as an early operational capability (EOC) in the required timeframe. OASuW Inc 1 will deliver the Long Range Anti-Ship Missile (LRASM) developed in the demonstration program as an EOC to meet the most urgent air-launched requirement, significantly reducing Joint Force warfighting risks and positioning the DoD to address evolving surface warfare threats. LRASM will remain a viable interim capability pending the determination of the long-term OASuW solution by evolving capability necessary to outpace a dynamic threat. Based on the February 3, 2014 ADM, the OASuW Inc 1/LRASM program is structured using an accelerated model because of the urgency of need. The program leverages DoDI 5000.02 Model 4 to structure the acquisition approach which includes a highly integrated developmental and operational test program in order to meet EOC objectives. Additionally, the ADM directed establishment of a DARPA/Navy/Air Force LRASM Deployment Office (LDO) to manage the OASuW Inc 1 program. LDO, later renamed the Effects Deployment Office (FXDO), uses Knowledge Point decision meetings with an Executive Steering Board chaired by the Service Acquisition Executive to provide focused support and oversight to address the risk of technical or acquisition inefficiencies in order to achieve the fielded capability by the required date. A sole-source contract for Integration and Test was awarded in April 2016 to Lockheed Martin, the prime integrator for the LRASM demonstration and the legacy Joint Air-to-Surface Standoff Missile-Extended Range system, for development and delivery of the LRASM EOC. The urgency of the requirement is the basis for the streamlined approach to accelerate the process. The LRASM weapon system is the force application component of the Anti-Surface Warfare (ASuW) capability servicing threat capital ships. LRASM is integral to realizing the National Defense Strategy of combat-credible military forces to deter war, protect the security of our nation and to

enable the Joint Force to win should deterrence fail. The development and acquisition of LRASM has been structured to be fielded at a pace relevant to maintain overmatch against long-term strategic competition. Specifically, LRASM directly contributes to building a more lethal force and is a critical enabler for joint lethality in contested environments; deterring adversaries from aggression; ensuring common domains remain open and maintaining favorable regional balances of power. LRASM will conduct pre-planned and variable strikes against heavily defended surface combatants.

**(U) Responsible Office**

**Program Executive Officer**

PEO Unmanned Aviation & Strike Weapons  
RADM Stephen Tedford  
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**Program Manager**

Offensive Anti-Surface Warfare Increment 1  
(Long Range Anti-Ship Missile) PMO  
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no phone number provided

## (U) Executive Summary

### Program Highlights Since Last Report

The Offensive Anti-Surface Warfare Increment One (OASuW Inc 1) Long Range Anti-Ship Missile (LRASM) program was established as a DoD 5000.02 Model 4 accelerated acquisition program with the goal of delivering a credible, lethal threat against advanced surface combatants by 2018 for the B-1 and 2019 for the F/A-18E/F. The program successfully met Early Operational Capability (EOC) on the B-1 in December 2018. The program successfully met EOC on the F/A-18E/F in November 2019. The program shifted focus from EOC capability to development of the AGM-158C-1 configuration in late 2019. AGM-158C-1 ensures continued tactical dominance against capital ships focusing primarily on improved communication capabilities, increased survivability and obsolescence upgrades. The program conducted a series of technical reviews assessing the maturity of the AGM-158C-1 configuration, including system-level Critical Design Review (CDR). Integrated Test Event Twelve (ITE-12) successfully completed in March 2024. Operational test for this configuration is planned for July and December 2024. The program is further evolving the LRASM capability with the development of the AGM-158C-3 configuration to maintain pace with emergent threats. The AGM-158C-3 configuration incorporates new technologies and builds upon mature AGE-158C-1 capabilities to enhance the Navy's Long-Range strike capability with the incorporation of beyond line of sight (BLOS) communications, advanced survivability and increased range.

The United States Navy (USN) and United States Air Force (USAF) plan to enter into a Multiyear Procurement (MYP) effort for LRASM, with contract award planned for third quarter FY 2024. APB Change 3 remains in signature routing to reflect a Procurement Cost Breach due to additional quantities and funding.

LRASM Australia All Up Rounds (AURs) initial production units start May 2024.

Recent Program achievements:

May 2023 AGM-158C-3 Preliminary Design Review (PDR) complete

May 2023 Lot 7 contract award

September 2023 AGM-158C-1 fielded with Carrier Air Wing Two (CVW-2)

December 2023 AGM-158C-3 phase 2 contract award

March 2024 AGM-158C-3 CDR complete

Defense Cost and Resource Center (DCARC) rating for Cost and Software Data Reporting (CSDR) rated as red critical status. The contract is complete and the CSDR requirement that generated this rating is no longer applicable. Office of the Secretary of Defense (OSD) cost Assessment and Program Evaluation (CAPE) approved this cancellation on April 9, 2024.

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

The Procurement Cost breach is due to additional quantities and funding. APB Change 3 is currently in routing.

### (U) History of Significant Developments Since Program Inception

| Date           | Description  |
|----------------|--|
| September 2022 | Integrated Test Event-11 Completed.                  |
| August 2022    | Integrated Test Event-10 Completed.                  |
| June 2022      | LRASM C-3 Engineering Change Delivery Order Awarded. |



| Date           | Description   |
|----------------|---|
| April 2022     | LRASM Lot 2 Deliveries Completed.   |
| February 2022  | LRASM Lot 6 Production Contract Award.  |
| February 2021  | LRASM Lots 4 and 5 Production Contract Award.   |
| September 2020 | LRASM 1.1 Preliminary Design Review Conducted   |
| April 2020     | LRASM Lot 3 Production Contract Awarded.  |
| November 2019  | F/A-18E/F EOC was achieved.   |
| December 2018  | B-1B EOC was achieved.  |
| September 2018 | KP 6 was approved as a result of meeting the weapon system EOC fielding threshold. The entrance criteria for KP 7 and 8 were also approved.   |
| March 2018     | KP 5 was approved, authorizing the contract award of Lot 2 Early Operational Capability (EOC) weapons production contract.  |
| December 2016  | KP 4 satisfying Production Readiness Review requirements and authorizing procurement of Lot 1 Early Operational Capability units.   |
| June 2016      | Assistant Secretary of the Navy for Research, Development and Acquisition Joint Memorandum for USD(AT&L) certified as required by section 2366b(a)(3)(L) of title 10, United States Code concurring with cost, schedule, technical feasibility, and performance trade-offs have been made with regard to LRASM. |
| April 2016     | Contract awarded for Integration and Test.  |
| February 2016  | KP 3 was held satisfying Milestone B certification and approved update to the Acquisition Strategy.   |
| June 2014      | Original Acquisition Strategy approved at Knowledge Point (KP) 1.   |
| February 2014  | Joint Memorandum from Office of the Under Secretary of Defense (Acquisition, Technology and Logistics) (USD(AT&L)) delegated MDA for the OASuW/ Inc 1 a pre-MDAP effort for the Navy. Program was structured as Model 4 accelerated acquisition.  |

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

| Events                                 |       | Development APB (Milestone) 6/30/2016 Objective | APB Change 2 (Current) 9/7/2020 Objective / Threshold |           | Current Estimate 12/31/2023 | Actual       |
|--|-------|---|---|-----------|-----------------------------|--------------|
| SETR 2.0                               | PDR   | Sept 2014                                       | Sept 2014   | Sept 2014 | -                           | 14 Sept 2014 |
| SETR 3.0                               | Other | Sept 2015                                       | Sept 2015   | Sept 2015 | -                           | 1 Sept 2015  |
| Knowledge Point 3                      | MS B  | Feb 2016  | Feb 2016  | Feb 2016  | -                           | 1 Feb 2016   |
| SETR 4.0                               | CDR   | Jun 2016  | Jun 2016  | Jun 2016  | -                           | 1 Jun 2016   |
| B-1 Early Operational Capability       | Other | Sept 2018                                       | Dec 2018  | Dec 2018  | -                           | 1 Dec 2018   |
| F/A-18E/F Early Operational Capability | Other | Sept 2019                                       | Nov 2019  | Nov 2019  | -                           | 1 Nov 2019   |

**Notes**

There are no significant schedule risks for the program.

**Schedule Baseline Deviation Explanation**

None

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

None

**(U) Performance**

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

**(U) Performance Attributes**

| Material Availability                    |                                     | KSA                                    |
|--|-------------------------------------|--|
| Current Estimate<br>12/31/2023           | Greater than 96%                    |  |
| Demonstrated Performance<br>2/20/2024    | 95%                                 |  |
| APB Change 2<br>(Current)                | Objective                           | more than or equal to 90% availability |
| 9/7/2020                                 | Threshold                           | More than or equal to 80% availability |
| Development APB<br>(Milestone)           | Objective                           | more than or equal to 90% availability |
| 6/30/2016                                |                                     |  |
| Operations and Support (O&S) Cost        |                                     | APA                                    |
| Current Estimate<br>12/31/2023           | Threshold =<br>Objective            |  |
| Demonstrated Performance<br>-            | \$404.3M                            |  |
| APB Change 2<br>(Current)                | Objective                           | Less than or equal to \$413M           |
| 9/7/2020                                 | Threshold                           | (T=O) Less than or equal to \$413M     |
| Development APB<br>(Milestone)           | Objective                           | Less than or equal to \$413M           |
| 6/30/2016                                |                                     |  |
| Operational Availability                 |                                     | KSA                                    |
| Current Estimate<br>12/31/2023           | Greater than 98%                    |  |
| Demonstrated Performance<br>-            | TBD                                 |  |
| APB Change 2<br>(Current)                | Objective                           | more than or equal to 98% availability |
| 9/7/2020                                 | Threshold                           | more than or equal to 90% availability |
| Development APB<br>(Milestone)           | Objective                           | more than or equal to 98% availability |
| 6/30/2016                                |                                     |  |
| Key Schedule Parameter (B-1 / F/A-18E/F) |                                     | APA                                    |
| Current Estimate<br>12/31/2023           | Dec 2018 / Nov<br>2019              |  |
| Demonstrated Performance<br>11/1/2019    | B1 (Dec. 2018)<br>F-A 18 (Nov 2019) |  |
| APB Change 2<br>(Current)                | Objective                           | 4th Quarter FY 2018/2019               |

|   |           |                                  |
|---|-----------|----------------------------------|
| 9/7/2020                                | Threshold | 4th Quarter FY 2019/2020         |
| Development APB (Milestone)             | Objective | 4th Quarter FY 2018/2019         |
| 6/30/2016                               |           |                                  |
| <b>Weapon System Reliability</b>        |           | <b>KSA</b>                       |
| Current Estimate 12/31/2023             |           | 92.7 Predicted                   |
| Demonstrated Performance -              |           | TBD                              |
| APB Change 2 (Current)                  | Objective | greater than or equal to 190 hrs |
| 9/7/2020                                | Threshold | more than or equal to 30 hrs     |
| Development APB (Milestone)             | Objective | greater than or equal to 190 hrs |
| 6/30/2016                               |           |                                  |
| <b>Key Cost Parameter</b>               |           | <b>KPP</b>                       |
| Current Estimate 12/31/2023             |           | USG Only                         |
| Demonstrated Performance -              |           | TBD                              |
| APB Change 2 (Current)                  | Objective | USG Only                         |
| 9/7/2020                                | Threshold | (T=0) USG Only                   |
| Development APB (Milestone)             | Objective | USG Only                         |
| 6/30/2016                               |           |                                  |
| <b>Service Life</b>                     |           | <b>APA</b>                       |
| Current Estimate 12/31/2023             |           | 15 years                         |
| Demonstrated Performance -              |           | TBD                              |
| APB Change 2 (Current)                  | Objective | 30 years                         |
| 9/7/2020                                | Threshold | 15 years                         |
| Development APB (Milestone)             | Objective | 30 years                         |
| 6/30/2016                               |           |                                  |
| <b>Weapon Load-Out (B-1/F/A-18 E-F)</b> |           | <b>APA</b>                       |
| Current Estimate 12/31/2023             |           | Threshold = Objective            |
| Demonstrated Performance -              |           | TBD                              |
| APB Change 2 (Current)                  | Objective | 24/4                             |

|                                |           |            |
|--------------------------------|-----------|------------|
| 9/7/2020                       | Threshold | (T=0) 24/4 |
| Development APB<br>(Milestone) | Objective | 24/4       |
| 6/30/2016                      |           |            |

**(U) Requirement Source:**

Sponsor(s): None

## 1. Document Type Not Provided

Notes: CDD for OASuW Weapon System Increment approved by JROCM 033-15 March 25, 2015

**Notes**

## Performance Notes:

O&amp;S Costs reflect current PB25. APB Change 3 is currently in routing.

For TBD's, data is insufficient at this time due to limited deployed assets.

Requirements Source: CDD for LRASM approved by JROC Memorandum 033-15 March 25, 2015.

**Performance Deviation Explanation**

None

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

| Category (\$M) Base Year: 2014 | Development APB<br>(Milestone)<br>6/30/2016<br>CY\$ obs<br>Objective | APB Change 2<br>(Current)<br>9/7/2020<br>CY\$ obs<br>Objective / Threshold |         | Current Estimate<br>PB 2025<br>CY\$ obs / TY\$ obs |         |
|--------------------------------|--|--|---------|--|---------|
|                                |  |  |         |  |         |
| RDT&E                          | 1,175.0  | 1,394.7  | 1,534.2 | 1,838.0*   | 2,084.4 |
| Procurement                    | 292.3  | 1,549.3  | 1,678.7 | 4,166.4*   | 5,725.4 |
| MILCON                         | 0.0  | 0.0  | 0.0     | -  | -       |
| O&M                            | 0.0  | 0.0  | 0.0     | -  | -       |
| R&MF                           | -  | -  | -       | -  | -       |
| Total Acquisition              | 1,467.3  | 2,944.0  | -       | 6,004.4  | 7,809.8 |
| Program Acquisition Unit Cost  | 11.833   | 5.841  | 6.375   | 3.725  | 4.845   |
| Average Procurement Unit Cost  | 2.657  | 3.175  | 3.440   | 2.622  | 3.603   |
| Program End-Item Quantity      |  |  |         |  |         |
| Development                    | 14   | 16   |         | 23   |         |
| Procurement                    | 110  | 488  |         | 1589   |         |
| O&M-Acquired                   | -  | -  |         | -  |         |

\* Baseline Deviation

**Budget Notes**

None

**Quantity Notes**

PB 2025: 1589 All Up Rounds (AURs) (900 United States Navy (USN) and 689 United States Air Force (USAF)).

**Cost Baseline Deviation Explanation**

| Parameter                | Explanation  |
|--------------------------|--|
| Acquisition Cost (RDT&E) | RDT&E cost increase from APB objective is due to the LRASM 1.1 capability improvements contract awarding at a higher cost than originally estimated. LRASM 1.1 capability improvements completed in FY 2023. Quantity and Cost deviation due to inclusion of LRASM AGM-158C-3 Development Effort. As of March 2024, APB Change 3 is in routing for approval. |

| Parameter                      | Explanation   |
|--------------------------------|---|
| Acquisition Cost (Procurement) | Updated United States Air Force (USAF) and United States Navy (USN) procurement values. Procurement cost increases (from baseline) due to additional missile quantities required by DoD beyond their original requirements and the inclusion of the LRASM AGM-158C-3 missile variant. Current Estimate does not align with APB Change 2; APB Change 3 is in routing for approval. |

**(U) Risk and Sensitivity Analysis**

|   |
|---|
| Current Procurement Estimate Risks (12/31/2023)   |
| None  |
| Current Baseline Risks (9/7/2020)   |
| None  |
| Original Baseline Risks (6/30/2016)   |
| A Joint Component Cost Estimate was completed to support Knowledge Point 3 dated February 19, 2016 and was completed at the 50% confidence level. There are no known cost risks at this time. |

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

| Category (CY\$M) Base Year: 2014 | Current Baseline<br>09/07/2020 | Current Estimate<br>PB 2025 | % Change |
|----------------------------------|--------------------------------|-----------------------------|----------|
| Program Acquisition Unit Cost    |                                |                             |          |
| Acquisition Cost                 | 2,944.0                        | 6,004.4                     |          |
| Program Quantity                 | 504                            | 1,612                       |          |
| PAUC                             | 5.841                          | 3.725                       | -36.23%  |
| Average Procurement Unit Cost    |                                |                             |          |
| Procurement Cost                 | 1,549.3                        | 4,166.4                     |          |
| Procurement Quantity             | 488                            | 1,589                       |          |
| APUC                             | 3.175                          | 2.622                       | -17.42%  |

**(U) Current Estimate Compared with Original Baseline**

| Category (CY\$M) Base Year: 2014 | Original Baseline<br>06/30/2016 | Current Estimate<br>PB 2025 | % Change |
|----------------------------------|---------------------------------|-----------------------------|----------|
| Program Acquisition Unit Cost    |                                 |                             |          |
| Acquisition Cost                 | 1,467.3                         | 6,004.4                     |          |
| Program Quantity                 | 124                             | 1,612                       |          |
| PAUC                             | 11.833                          | 3.725                       | -68.52%  |
| Average Procurement Unit Cost    |                                 |                             |          |
| Procurement Cost                 | 292.3                           | 4,166.4                     |          |
| Procurement Quantity             | 110                             | 1,589                       |          |
| APUC                             | 2.657                           | 2.622                       | -1.32%   |

**Notes**

None



**(U) Life-Cycle Costs****(U) Operating and Support and Disposal Cost Estimates Compared with Baseline**

| Category (\$M) Base Year: 2014 | Development APB (Milestone) 6/30/2016 CY\$ obs Objective | APB Change 2 (Current) 9/7/2020 CY\$ obs Objective / Threshold |       | Current Estimate CY\$ obs / TY\$ obs |       |
|--------------------------------|--|--|-------|--------------------------------------|-------|
|                                |  |  |       |                                      |       |
| Total O&S                      | 213.7  | 318.2  | 350.0 | 391.8*                               | 604.2 |
| Total Disposal                 | -  | -  | -     | 43.3                                 | 81.5  |

\* Baseline Deviation

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

Type: Program Office Estimate

Approved by: Program Office , January 15, 2020

**Disposal/Demilitarization Cost**

Type: Independent Cost Estimate

Approved by: NAVAIR CSA, March 31, 2024

**Operating and Support Baseline Deviation Explanation**

None

**Cost Notes**

a. Disposal/Demilitarization Cost Estimate and Source of Estimate:

Source of Estimate: POE

Disposal/Demilitarization Total Cost (BY 2014 \$M): 43.3

The assumption for Disposal/Demilitarization costs is that no missiles have been expended/fired through the life of the program. Therefore, all 1589 USN/USAF units will be disposed.

**(U) Operating and Support Variance with Prior Estimate**

| (CY\$M) Base Year: 2014    | Estimate |             |
|----------------------------|----------|-------------|
| Prior Estimate (2/19/2016) | 213.7    |             |
| Current Estimate           | 391.8    |             |
|                            |          |             |
| Category                   | Variance | Explanation |
| Unit-Level Manpower        | -        | N/A         |
| Unit Operations            | -        | N/A         |

| (CY\$M) Base Year: 2014        | Estimate |  |
|--------------------------------|----------|--|
| Maintenance                    | 41.7     | Increased quantities, extended procurement schedule, and addition of a new LRASM variant accounts for longer sustainment life and support needed. APB Change 3 includes the updated quantity and procurement profile. APB Change 3 is currently in routing for approval. |
| Sustaining Support             | 93.4     | Increased quantities, extended procurement schedule, and addition of a new LRASM variant accounts for longer sustainment life and support needed. APB Change 3 includes the updated quantity and procurement profile. APB Change 3 is currently in routing for approval. |
| Continuing System Improvements | 21.8     | Increased quantities, extended procurement schedule, and addition of a new LRASM variant accounts for longer sustainment life and support needed. APB Change 3 includes the updated quantity and procurement profile. APB Change 3 is currently in routing for approval. |
| Other                          | 21.2     | Increased quantities, extended procurement schedule, and addition of a new LRASM variant accounts for longer sustainment life and support needed. APB Change 3 includes the updated quantity and procurement profile. APB Change 3 is currently in routing for approval. |
|                                |          |  |
| Not Categorized                | 0.0      |  |

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

| (CY\$M) Base Year: 2014 |                     |                 |             |                    |                                |       |       |
|-------------------------|---------------------|-----------------|-------------|--------------------|--------------------------------|-------|-------|
| System                  | Unit-Level Manpower | Unit Operations | Maintenance | Sustaining Support | Continuing System Improvements | Other | Total |
| LRASM                   | -                   | -               | 76.7        | 237.1              | 56.8                           | 21.2  | 391.8 |
| Program                 | -                   | -               | 76.7        | 237.1              | 56.8                           | 21.2  | 391.8 |

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

No Data

### (U) Operating and Support Cost Estimate Assumptions

No Data

### Additional O&S Estimate Assumptions

The O&S costs reported in this report are reflective of a total of 1,589 production units. There is no intention of sustaining the 23 development units.

**Antecedent Estimate Assumptions**

No antecedent. Joint Air-to-Surface Standoff Missile (JASSM) is not considered to be an Antecedent to LRASM as the internal components are substantially different.

**O&S Annual Cost Calculation Memo**

None

**(U) Technologies and Systems Engineering****(U) Current Significant Technical Risks and Risks Identified at Milestones/Decisions**

| Event   | Date       | Description                          |
|---------|------------|--------------------------------------|
| Current | 12/12/2021 | There are no procurement cost risks. |

**(U) Performing Activities and Contracts**

**(U) External Government Activities**

None

**(U) Contracts and Efforts**

| Contract Title               | Contract Number / Effort | Contractor                  | Phase       |
|------------------------------|--------------------------|-----------------------------|-------------|
| LRASM C-3 Phase 1 and 2      | N00019-19-G-0011 / 3     | Lockheed Martin Corporation | Development |
| LRASM (Lot 7/8)              | FA8682-23-C-B001 / 2     | Lockheed Martin Corporation | Production  |
| LRASM Production (Lot 4/5/6) | FA8682-21-C-0004 / 1     | Lockheed Martin Corporation | Production  |

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

**Contract Number:** N00019-19-G-0011      **Order Number:** N00019-22-F-0010  
**Contract Title:** LRASM C-3 Phase 1 and 2      **Strategy:** FAR 16.703: Basic Ordering Agreement  
**CAGE:** 04939 - Lockheed Martin Corporation      **Contracting Office:** NAVAIR  
**City, State/Province:** Orlando, FL  
  
**Effort Number:** 3      **Supported Phase:** Development  
**Type:** Cost Plus Fixed Fee      **Award Date:** June 10, 2022  
**Latest Modification Date:** December 19, 2023      **Definitization Date:** -  
**Latest Modification No.:** P00013      **Work Start Date:** December 19, 2023  
**Technical Data Rights:** None  
**Notes:** Contract Definitization for Phase 1 and Phase 2 expected 3Q FY 2024.

| Initial Price (TY\$M)<br>Target / Ceiling | Current Price (TY\$M)<br>Target / Ceiling | Estimate at Completion (TY\$M)<br>Contractor / PM | Initial<br>Quantity | Current<br>Quantity | Delivered<br>Quantity |
|---|---|---|---------------------|---------------------|-----------------------|
| 32.0      32.0                            | 37.0      202.5                           | 217.8      201.0                                  | -                   | -                   | -                     |

**Work Completed (%):** 55.42%  
**Cost Variance (TY\$M):** -5.3  
**Schedule Variance (TY\$M):** -1.2

**Factors Contributing to Cost Variance and Projected Effects on Program Costs**

The unfavorable cumulative cost variance is due to more support than planned for some of the tasking (Critical Design Review preparation and review, E3 integration analysis, etc.).

**Factors Contributing to Schedule Variance and Projected Effects on Program Schedule**

The unfavorable variance is due to changed requirements for the 26 of the B-2 version Mission Control Units.

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

**Contract Number:** FA8682-23-C-B001      **Order Number:** -  
**Contract Title:** LRASM (Lot 7/8)      **Strategy:** FAR 16.603: Letter Contract  
**CAGE:** 04939 - Lockheed Martin Corporation      **Contracting Office:** USAF/AFMC/AFLCMC/EBJK  
**City, State/Province:** Orlando, FL

**Effort Number:** 2      **Supported Phase:** Production  
**Type:** Firm-Fixed-Price      **Award Date:** May 18, 2023  
**Latest Modification Date:** February 15, 2024      **Definitization Date:** May 18, 2023  
**Latest Modification No.:** P0005      **Work Start Date:** February 15, 2024  
**Technical Data Rights:** None

**Notes:** LRASM Lots 7 & 8  
P0005 Increased LRASM C-1 All Up Rounds.  
Cost Variance reporting is not required on this Firm Fixed Price (FFP) contract.  
Schedule Variance reporting is not required on this (FFP) contract.

| Initial Price (TY\$M)<br>Target / Ceiling |       | Current Price (TY\$M)<br>Target / Ceiling |       | Estimate at Completion (TY\$M)<br>Contractor / PM |       | Initial<br>Quantity | Current<br>Quantity | Delivered<br>Quantity |
|---|-------|---|-------|---|-------|---------------------|---------------------|-----------------------|
| 443.8                                     | 443.8 | 651.7                                     | 651.7 | 651.7   | 651.7 | -                   | -                   | -                     |

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

**Contract Number:** FA8682-21-C-0004      **Order Number:** -  
**Contract Title:** LRASM Production (Lot 4/5/6)      **Strategy:** FAR 16.603: Letter Contract  
**CAGE:** 04939 - Lockheed Martin Corporation      **Contracting Office:** USAF/AFMC/AFLCM/EJJK  
**City, State/Province:** Orlando, FL

**Effort Number:** 1      **Supported Phase:** Production  
**Type:** Firm-Fixed-Price      **Award Date:** February 23, 2021  
**Latest Modification Date:** March 25, 2024      **Definitization Date:** February 23, 2021  
**Latest Modification No.:** P00028      **Work Start Date:** March 25, 2024  
**Technical Data Rights:** None

**Notes:** Total quantity for this contract is 188 missiles. The difference from the Initial Target Price to the Current Target Price is due to the added funding for the additional option.  
Cost Variance reporting is not required on this Firm Fixed Price (FFP) contract.  
Schedule Variance reporting is not required on this (FFP) contract.

| Initial Price (TY\$M)<br>Target / Ceiling |       | Current Price (TY\$M)<br>Target / Ceiling |       | Estimate at Completion (TY\$M)<br>Contractor / PM |       | Initial<br>Quantity | Current<br>Quantity | Delivered<br>Quantity |
|---|-------|---|-------|---|-------|---------------------|---------------------|-----------------------|
| 414.3                                     | 414.3 | 576.5                                     | 576.5 | 576.5   | 576.5 | 137                 | 188                 | Redacted              |

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

|                            | Original LRIP Determination | Current LRIP Determination |
|----------------------------|-----------------------------|----------------------------|
| Total LRIP Quantity        | 110                         | 1,589                      |
| Date                       | 3/31/2016                   | 2/24/2023                  |
| Reference                  | OASuW Increment 1 KP        | PB 2025 Budget Exhibit     |
| LRIP Period                | FY 2017 - 2019              | FY 2017 - 2028             |
| Total Procurement Quantity | 110                         | 1,589                      |
| 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 because LRASM continues to be an interim solution pending development and fielding of the OASuW Increment 2 Hypersonic Air-Launched OASuW (HALO) solution.

**LRIP Notes**

As a result of the PB 2025 issued quantities, adjustments have been made to the program increasing the required quantity to 1589 All Up Rounds (AURs) (900 United States Navy and 689 United States Air Force).

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

|                          | Total Estimate | Actual to Date | Actual, Percent Complete |
|--------------------------|----------------|----------------|--------------------------|
| Years Appropriated       | 33             | 12             | 36.4%                    |
| Appropriations (TY, \$M) | 7,809.8        | 3,910.0        | 50.1%                    |
| Expenditures (TY, \$M)   | 7,809.8        | 2,547.0        | 32.6%                    |

**(U) End Items Delivered**

|              | Total Required | Planned to Date | Actual to Date | Actual, Percent Complete |
|--------------|----------------|-----------------|----------------|--------------------------|
| Development  | 23             |                 |                |                          |
| LRASM        |                | 16              | 16             |                          |
| Procurement  | 1,589          |                 |                |                          |
| LRASM        |                | 192             | 192            |                          |
| <b>Total</b> | <b>1,612</b>   | <b>208</b>      | <b>208</b>     | <b>12.9%</b>             |

**Notes**

Numbers reflect PB 2025.



## (U) International Program Aspects

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

### General Memo

Australia has two active cases: 1) Letter of Offer and Acceptance AT-P-FAL Technical Services Case) - Payments Complete and 2) Letter of Offer and Acceptance AT-P-ANT procure LRASM production units.

### Exportability and Business Issues

Long Range Anti-Ship Missile (LRASM) is currently addressing a program protection issue.

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

### Program Protection: Technology Security and Foreign Disclosure Issues

There are no technology security or foreign disclosure issues at this time.

### (U) Agreements

No International Agreements have been defined for OASuW Inc 1 (LRASM)



UNCLASSIFIED

**Modernized  
Selected Acquisition Report  
Supplement**

**Offensive Anti-Surface Warfare Increment 1 (Long Range Anti-Ship Missile)  
(OASuW Inc 1 (LRASM))**

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**

Offensive Anti-Surface Warfare Increment 1 (Long Range Anti-Ship Missile)

**Short Name**

OASuW Inc 1 (LRASM)

**PNO**

449

**Lead Component**

Navy

**AAF Pathway**

MCA

**Acquisition Type**

MDAP

**Acquired Systems**

LRASM

### Related Programs

| Full Name | PNO | Pathway | Type | ACAT/<br>BCAT | Acquisition<br>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

### Offensive Anti-Surface Warfare Increment 1 (Long Range Anti-Ship Missile)

#### Major Software Efforts

| Title | Status | Fielding Date | Description |
|-------|--------|---------------|-------------|
| N/A   |        |               |             |

#### Major Engineering Changes

| Title      | Original Need Date | Fielding Date | Description, Rationale and Program Impacts  |
|------------|--------------------|---------------|---|
| AGM-158C-3 | Sep 2026           | Sep 2026      | The LRASM C-3 (PU 3466) is established to enhance the Navy's OASuW and incorporate a future long range strike capability into the Navy's arsenal derived from the Navy's AGM-158C-1 LRASM and the Air Force's AGM-158 JASSM-ER. The Navy will integrate an AGM-158 derived weapon with extended range, enhanced radio and survivability onto F/A-18 aircraft and partner with USAF to further the capabilities of the AGM-158 product line. |

## Funding Sources (Acquisition)

### Acquisition Funding Notes

None

### Offensive Anti-Surface Warfare Increment 1 (Long Range Anti-Ship Missile)

| Category    | Account | BA | Line Item  | Program Element | RDT&E Project  | Shared | Sunk |
|-------------|---------|----|--|-----------------|--|--------|------|
| RDT&E       | 1319N   | 04 | 0604786N - Offensive Anti-Surface Warfare Weapon Development | 0604786N        | 3337 - Offensive Anti-Surface Warfare (OASuW) Weapon |        |      |
| RDT&E       | 1319N   | 04 | 0604786N - Offensive Anti-Surface Warfare Weapon Development | 0604786N        | 3466 - LRASM C-3                                     |        |      |
| Procurement | 1507N   | 02 | 2291 - LRASM   | 0204167M        | -  |        |      |
| Procurement | 1507N   | 02 | 2291 - LRASM   | 0204167N        | -  |        |      |

## Funding Sources (Operating and Support)

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

### Operating and Support Funding Notes

None

### Offensive Anti-Surface Warfare Increment 1 (Long Range Anti-Ship Missile)

| Category | Account | BA | Line Item                  | Program Element | RDT&E Project | Shared | Sunk |
|----------|---------|----|----------------------------|-----------------|---------------|--------|------|
| O&M      | 1804N   | 01 | 1D4D - Weapons Maintenance | 0702207N        | -             | x      |      |

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**Acquisition Estimate and Quantity Summary****Offensive Anti-Surface Warfare Increment 1 (Long Range Anti-Ship Missile)****Acquisition Estimates**

| Category                 | PB 2025 | TY (\$M)       | Current Base Year | Original Base Year | Report Fiscal Year |
|--------------------------|---------|----------------|-------------------|--------------------|--------------------|
|                          |         |                | CY2014 (\$M)      | CY2014 (\$M)       | CY2024 (\$M)       |
| RDT&E                    |         | 2,084.4        | 1,838.0           | 1,838.0            | 2,386.4            |
| Procurement              |         | 5,725.4        | 4,166.4           | 4,166.4            | 5,409.5            |
| MILCON                   |         | -              | -                 | -                  | -                  |
| O&M                      |         | -              | -                 | -                  | -                  |
| <b>Total Acquisition</b> |         | <b>7,809.9</b> | <b>6,004.4</b>    | <b>6,004.4</b>     | <b>7,795.9</b>     |
| PAUC                     |         | 4.845          | 3.725             | 3.725              | 4.836              |
| APUC                     |         | 3.603          | 2.622             | 2.622              | 3.404              |

**Acquisition End-Item Quantities**

| System       | PB 2025 | Development | Procurement  |
|--------------|---------|-------------|--------------|
| LRASM        |         | 23          | 1,589        |
| <b>Total</b> |         | <b>23</b>   | <b>1,589</b> |

**Unit Description**

One (1) All-Up-Round

Quantities include Navy and Air Force procurement

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

| Appropriation        | Prior          | 2024         | 2025         | 2026         | 2027         | 2028         | 2029         | To Complete | Total          |
|----------------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|----------------|
| RDT&E                | 1,625.2        | 181.9        | 163.3        | 67.9         | 25.9         | 8.6          | 11.6         | -           | 2,084.4        |
| Procurement          | 1,315.6        | 787.3        | 680.5        | 682.4        | 741.6        | 751.3        | 766.7        | -           | 5,725.4        |
| MILCON               | -              | -            | -            | -            | -            | -            | -            | -           | -              |
| O&M                  | -              | -            | -            | -            | -            | -            | -            | -           | -              |
| <b>PB 2025 Total</b> | <b>2,940.9</b> | <b>969.2</b> | <b>843.8</b> | <b>750.3</b> | <b>767.6</b> | <b>759.9</b> | <b>778.3</b> | <b>-</b>    | <b>7,809.9</b> |

## Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

### Offensive Anti-Surface Warfare Increment 1 (Long Range Anti-Ship Missile)

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/<br>Unallocated | Total<br>TY(\$M) | Weighted<br>Rate | Total CY2014<br>(\$M) |
| <b>Total</b>                                     |  | <b>2,084.4</b>        | <b>2,084.4</b>   | <b>-</b>         | <b>1,838.0</b>        |
| 2013   |  | 77.609                | 77.6             | 0.998396         | 77.7                  |
| 2014   |  | 86.470                | 86.5             | 1.012503         | 85.4                  |
| 2015   |  | 181.719               | 181.7            | 1.025243         | 177.2                 |
| 2016   |  | 348.708               | 348.7            | 1.044272         | 333.9                 |
| 2017   |  | 301.432               | 301.4            | 1.063810         | 283.4                 |
| 2018   |  | 162.082               | 162.1            | 1.089868         | 148.7                 |
| 2019   |  | 145.841               | 145.8            | 1.110859         | 131.3                 |
| 2020   |  | 112.187               | 112.2            | 1.151709         | 97.4                  |
| 2021   |  | 54.537                | 54.5             | 1.203472         | 45.3                  |
| 2022   |  | 84.743                | 84.7             | 1.266344         | 66.9                  |
| 2023   |  | 69.921                | 69.9             | 1.304044         | 53.6                  |
| 2024   |  | 181.858               | 181.9            | 1.333812         | 136.3                 |
| 2025   |  | 163.288               | 163.3            | 1.362106         | 119.9                 |
| 2026   |  | 67.868                | 67.9             | 1.390710         | 48.8                  |
| 2027   |  | 25.922                | 25.9             | 1.419915         | 18.3                  |
| 2028   |  | 8.645                 | 8.6              | 1.449733         | 6.0                   |
| 2029   |  | 11.615                | 11.6             | 1.480178         | 7.8                   |

## Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

### Offensive Anti-Surface Warfare Increment 1 (Long Range Anti-Ship Missile)

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

| 1507N - Weapons 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 CY2014 (\$M) |
| <b>Total</b>                      | <b>3,123.5</b>             | <b>-</b>                       | <b>222.3</b>          | <b>2.0</b>     | <b>-</b>         | <b>98.4</b>        | <b>3,446.2</b> | <b>-</b>      | <b>2,524.5</b>     |
| 2013                              |                            |                                |                       |                |                  |                    | -              | 1.009840      | -                  |
| 2014                              |                            |                                |                       |                |                  |                    | -              | 1.023897      | -                  |
| 2015                              |                            |                                |                       |                |                  |                    | -              | 1.040599      | -                  |
| 2016                              |                            |                                |                       |                |                  |                    | -              | 1.060148      | -                  |
| 2017                              | 56.520                     |                                | -                     | -              |                  | 0.200              | 56.7           | 1.083103      | 52.4               |
| 2018                              | 122.170                    |                                | -                     | -              |                  | 0.400              | 122.6          | 1.112848      | 110.1              |
| 2019                              | 129.630                    |                                | -                     | -              |                  | 0.800              | 130.4          | 1.145522      | 113.9              |
| 2020                              | 49.230                     |                                | 21.900                | -              |                  | 0.900              | 72.0           | 1.190963      | 60.5               |
| 2021                              | 125.710                    |                                | 6.610                 | -              |                  | 1.671              | 134.0          | 1.245309      | 107.6              |
| 2022                              | 143.880                    |                                | 12.390                | -              |                  | 4.939              | 161.2          | 1.293946      | 124.6              |
| 2023                              | 190.080                    |                                | 7.560                 | -              |                  | 22.023             | 219.7          | 1.327408      | 165.5              |
| 2024                              | 471.836                    |                                | 105.280               | 0.400          |                  | 22.123             | 599.6          | 1.356551      | 442.0              |
| 2025                              | 281.820                    |                                | 31.950                | 0.400          |                  | 12.263             | 326.4          | 1.385180      | 235.7              |
| 2026                              | 365.460                    |                                | 9.140                 | 0.400          |                  | 11.215             | 386.2          | 1.414269      | 273.1              |
| 2027                              | 384.050                    |                                | 8.380                 | 0.400          |                  | 11.884             | 404.7          | 1.443969      | 280.3              |
| 2028                              | 393.150                    |                                | 9.290                 | 0.400          |                  | 9.108              | 411.9          | 1.474292      | 279.4              |
| 2029                              | 409.920                    |                                | 9.840                 | -              |                  | 0.910              | 420.7          | 1.505252      | 279.5              |

## Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

### Offensive Anti-Surface Warfare Increment 1 (Long Range Anti-Ship Missile)

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

| 3020F - Missile Procurement, Air Force |                            |                                |                       |                |                  |                    |                |               |                    |
|--|----------------------------|--------------------------------|-----------------------|----------------|------------------|--------------------|----------------|---------------|--------------------|
| fiscal year                            | End Item Recurring Flyaway | Non-End Item Recurring Flyaway | Non-Recurring Flyaway | Initial Spares | Depot Activation | Other/ Unallocated | Total TY(\$M)  | Weighted Rate | Total CY2014 (\$M) |
| <b>Total</b>                           | <b>2,274.3</b>             | -                              | -                     | -              | -                | <b>4.9</b>         | <b>2,279.2</b> | -             | <b>1,642.0</b>     |
| 2013                                   |                            |                                |                       |                |                  |                    | -              | 1.012933      | -                  |
| 2014                                   |                            |                                |                       |                |                  |                    | -              | 1.027879      | -                  |
| 2015                                   |                            |                                |                       |                |                  |                    | -              | 1.040488      | -                  |
| 2016                                   |                            |                                |                       |                |                  |                    | -              | 1.060633      | -                  |
| 2017                                   | 71.400                     |                                | -                     | -              |                  | -                  | 71.4           | 1.087591      | 65.6               |
| 2018                                   | 59.100                     |                                | -                     | -              |                  | 2.700              | 61.8           | 1.114721      | 55.4               |
| 2019                                   | 54.400                     |                                | -                     | -              |                  | -                  | 54.4           | 1.147186      | 47.4               |
| 2020                                   | -                          |                                | -                     | -              |                  | -                  | -              | 1.191766      | -                  |
| 2021                                   | 17.600                     |                                | -                     | -              |                  | 2.200              | 19.8           | 1.245551      | 15.9               |
| 2022                                   | -                          |                                | -                     | -              |                  | -                  | -              | 1.292330      | -                  |
| 2023                                   | 211.589                    |                                | -                     | -              |                  | -                  | 211.6          | 1.325673      | 159.6              |
| 2024                                   | 187.667                    |                                | -                     | -              |                  | -                  | 187.7          | 1.355290      | 138.5              |
| 2025                                   | 354.100                    |                                | -                     | -              |                  | -                  | 354.1          | 1.383949      | 255.9              |
| 2026                                   | 296.205                    |                                | -                     | -              |                  | -                  | 296.2          | 1.413012      | 209.6              |
| 2027                                   | 336.935                    |                                | -                     | -              |                  | -                  | 336.9          | 1.442685      | 233.5              |
| 2028                                   | 339.325                    |                                | -                     | -              |                  | -                  | 339.3          | 1.472982      | 230.4              |
| 2029                                   | 345.996                    |                                | -                     | -              |                  | -                  | 346.0          | 1.503914      | 230.1              |

## Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

### Offensive Anti-Surface Warfare Increment 1 (Long Range Anti-Ship Missile)

| 1319N - Research, Development, Test & Eval, Navy |           |  |  |           |
|--|-----------|--|--|-----------|
| fiscal year                                      | LRASM     |  |  | Total     |
| <b>Total</b>                                     | <b>23</b> |  |  | <b>23</b> |
| Undistributed                                    |           |  |  | -         |
| 2016   | 12        |  |  | 12        |
| 2017   | 1         |  |  | 1         |
| 2018   | -         |  |  | -         |
| 2019   | 3         |  |  | 3         |
| 2020   | -         |  |  | -         |
| 2021   | -         |  |  | -         |
| 2022   | -         |  |  | -         |
| 2023   | 3         |  |  | 3         |
| 2024   | 4         |  |  | 4         |

## Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

### Offensive Anti-Surface Warfare Increment 1 (Long Range Anti-Ship Missile)

| 1507N - Weapons Procurement, Navy |            |  |  |            |
|-----------------------------------|------------|--|--|------------|
| fiscal year                       | LRASM      |  |  | Total      |
| <b>Total</b>                      | <b>900</b> |  |  | <b>900</b> |
| Undistributed                     |            |  |  | -          |
| 2016                              | -          |  |  | -          |
| 2017                              | 14         |  |  | 14         |
| 2018                              | 34         |  |  | 34         |
| 2019                              | 34         |  |  | 34         |
| 2020                              | 17         |  |  | 17         |
| 2021                              | 43         |  |  | 43         |
| 2022                              | 48         |  |  | 48         |
| 2023                              | 66         |  |  | 66         |
| 2024                              | 91         |  |  | 91         |
| 2025                              | 90         |  |  | 90         |
| 2026                              | 111        |  |  | 111        |
| 2027                              | 117        |  |  | 117        |
| 2028                              | 119        |  |  | 119        |
| 2029                              | 116        |  |  | 116        |

## Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

### Offensive Anti-Surface Warfare Increment 1 (Long Range Anti-Ship Missile)

| 3020F - Missile Procurement, Air Force |            |  |  |            |
|--|------------|--|--|------------|
| fiscal year                            | LRASM      |  |  | Total      |
| <b>Total</b>                           | <b>689</b> |  |  | <b>689</b> |
| Undistributed                          |            |  |  | -          |
| 2016                                   |            |  |  | -          |
| 2017                                   | 19         |  |  | 19         |
| 2018                                   | 16         |  |  | 16         |
| 2019                                   | 15         |  |  | 15         |
| 2020                                   | -          |  |  | -          |
| 2021                                   | 6          |  |  | 6          |
| 2022                                   | -          |  |  | -          |
| 2023                                   | 57         |  |  | 57         |
| 2024                                   | 27         |  |  | 27         |
| 2025                                   | 115        |  |  | 115        |
| 2026                                   | 99         |  |  | 99         |
| 2027                                   | 111        |  |  | 111        |
| 2028                                   | 112        |  |  | 112        |
| 2029                                   | 112        |  |  | 112        |

## **Nuclear Costs**

### **Offensive Anti-Surface Warfare Increment 1 (Long Range Anti-Ship Missile)**

#### **Program's Use of Department of Energy Resources**

None



## **Operational Fielding Plan**

### **Offensive Anti-Surface Warfare Increment 1 (Long Range Anti-Ship Missile)**

**System: LRASM**

#### **Fielding and Inventory Notes**

None

#### **LRASM Fielding Plan and Inventory**

Redacted

## O&S Independent Cost Estimate

### Offensive Anti-Surface Warfare Increment 1 (Long Range Anti-Ship Missile)

#### Independent and Current Cost Estimate Comparison

| Category                      | CY2014 (\$M) | Independent Cost Estimate 2/19/2016 | Current Estimate | Variance with ICE (%) |
|-------------------------------|--------------|-------------------------------------|------------------|-----------------------|
| Unit-Level Manpower           |              |                                     |                  | -                     |
| Unit Operations               |              |                                     |                  | -                     |
| Maintenance                   |              | 35.0                                | 76.7             | 119%                  |
| Sustaining Support            |              | 143.7                               | 237.1            | 65%                   |
| Continued System Improvements |              | 35.0                                | 56.8             | 62%                   |
| Other                         |              |                                     | 21.2             | -                     |
| <b>Total O&amp;S</b>          |              | <b>213.7</b>                        | <b>391.8</b>     | <b>83%</b>            |

#### Independent Cost Estimate Source

Event: Change 1 Joint Component Cost Position for LRASM  
 Type: Component Cost Position  
 Approved by: NCCA/AFCAA, February 19, 2016  
 Note: This ICE will be updated in an upcoming Navy Sustainment Review to align with updated program requirements.

#### Current Cost Estimate Source

Type: Program Office Estimate  
 Approved by: PMA 201  
 Note: Updated Program Office Estimate for additional quantities.

#### Cost Estimate Variance Explanation

Increase in quantity and procurement years from original 2016 estimate accounts for the increase in O&S Costs. LRASM is on schedule for a Navy Sustainment Review (FY27) and will undergo an update to the CAPE ICE.

**Annual Operating and Support Estimates by Cost Element****Offensive Anti-Surface Warfare Increment 1 (Long Range Anti-Ship Missile)****System: LRASM**

Source for TY-CY Conversion: Multiple - USAF 3400, OMNLFComp, WPN, MPN Comp

| 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 CY2014 (\$M) |
| <b>Total</b>                        | -                       | -                   | <b>76.7</b>     | <b>237.1</b>           | <b>56.8</b>                        | <b>21.2</b> | <b>391.8</b>       |
| 2018                                | -                       | -                   | -               | 6.645                  | 2.105                              | -           | 8.8                |
| 2019                                | -                       | -                   | -               | 6.777                  | 2.105                              | -           | 8.9                |
| 2020                                | -                       | -                   | 0.362           | 9.387                  | 2.105                              | 0.848       | 12.7               |
| 2021                                | -                       | -                   | 0.414           | 9.387                  | 2.105                              | 0.848       | 12.8               |
| 2022                                | -                       | -                   | 0.558           | 9.387                  | 2.105                              | 0.848       | 12.9               |
| 2023                                | -                       | -                   | 0.704           | 9.387                  | 2.105                              | 0.848       | 13.0               |
| 2024                                | -                       | -                   | 1.061           | 9.387                  | 2.105                              | 0.848       | 13.4               |
| 2025                                | -                       | -                   | 1.418           | 9.387                  | 2.105                              | 0.848       | 13.8               |
| 2026                                | -                       | -                   | 2.024           | 9.387                  | 2.105                              | 0.848       | 14.4               |
| 2027                                | -                       | -                   | 2.663           | 9.387                  | 2.105                              | 0.848       | 15.0               |
| 2028                                | -                       | -                   | 3.368           | 9.387                  | 2.105                              | 0.848       | 15.7               |
| 2029                                | -                       | -                   | 4.099           | 9.387                  | 2.105                              | 0.848       | 16.4               |
| 2030                                | -                       | -                   | 4.836           | 8.651                  | 2.105                              | 0.848       | 16.4               |
| 2031                                | -                       | -                   | 4.891           | 8.651                  | 2.105                              | 0.848       | 16.5               |
| 2032                                | -                       | -                   | 4.948           | 8.651                  | 2.105                              | 0.848       | 16.6               |
| 2033                                | -                       | -                   | 4.903           | 8.651                  | 2.105                              | 0.848       | 16.5               |
| 2034                                | -                       | -                   | 4.799           | 8.651                  | 2.105                              | 0.848       | 16.4               |
| 2035                                | -                       | -                   | 4.676           | 8.651                  | 2.105                              | 0.848       | 16.3               |
| 2036                                | -                       | -                   | 4.732           | 8.651                  | 2.105                              | 0.848       | 16.3               |
| 2037                                | -                       | -                   | 4.679           | 8.651                  | 2.105                              | 0.848       | 16.3               |
| 2038                                | -                       | -                   | 4.625           | 8.651                  | 2.105                              | 0.848       | 16.2               |
| 2039                                | -                       | -                   | 4.309           | 8.651                  | 2.105                              | 0.848       | 15.9               |
| 2040                                | -                       | -                   | 3.984           | 8.651                  | 2.105                              | 0.848       | 15.6               |
| 2041                                | -                       | -                   | 3.332           | 8.651                  | 2.105                              | 0.848       | 14.9               |
| 2042                                | -                       | -                   | 2.619           | 8.651                  | 2.105                              | 0.848       | 14.2               |
| 2043                                | -                       | -                   | 1.797           | 8.651                  | 2.105                              | 0.848       | 13.4               |
| 2044                                | -                       | -                   | 0.917           | 8.651                  | 2.105                              | 0.848       | 12.5               |