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Modernized Selected Acquisition Report (MSAR)
Department of Defense
Littoral Combat Ship Mission Modules (LCS MM)
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

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 Littoral Combat Ship Mission Modules | Short Name LCS MM |
| PNO 443 | Milestone Decision Authority Component Acquisition Executive |
| Lead Component Department of the Navy | Program Executive Office PEO Unmanned and Small Surface Combatants |
| Joint Program No | Acquisition Type Major Defense Acquisition Program |
| Adaptive Acquisition Pathway No Data | MDAP/ACAT I Equivalent No |
| Acquisition Category IC | Acquired Systems LCS Anti-Submarine Warfare Mission Package, LCS MM, LCS Mine Countermeasures Mission Package, LCS Surface Warfare Mission Package |
| Major System No | |
| Acquisition Status Active Acquisition | |

Mission

Program remains rated Yellow for Performance pending approval of CDD *in January 2021*.

(U) Responsible Office

Program Executive Officer

PEO Unmanned and Small Surface Combatants
No Data

Program Manager

Littoral Combat Ship Mission Modules PMO
No Data

(U) Executive Summary

Program Highlights Since Last Report

Significant Accomplishments:

On 31 March 2023, the LCS MM Program achieved one of its top priorities when the Navy declared Initial Operational Capability (IOC) of the Mine Countermeasures (MCM) Mission Package (MP). The Program of Record (PoR) will field capabilities as approved in the budget and in phase with ship deliveries. The LCS MM quantities remain the same as the PB for the FY 2023 submission. These include:

- 24 Mine Countermeasures (MCM) MPs – 15 for LCS and 9 for Vessels Of Opportunity (VOOs)
- 10 Surface Warfare (SUW) MPs
- 1 Anti-Submarine Warfare (ASW) MP – previously procured with FY 2020 and FY 2021 funds. The 24 deployable MCM MPs will support 15 Independence variant LCS and the Chief of Naval Operations direction to use other Navy platforms (VOOs). The 10 deployable SUW MPs procured from FY 2010 to FY 2018 will support 8 LCS.

SUW MP

- Surface-to-Surface Missile Module (SSMM) supporting deployments on USS Indianapolis (LCS 17).
- All five SSMM production units delivered in FY 2024.
- SUW MP is operating in the Fleet today supporting 5th and 6th Fleet deployments.
- FY23 OPN recission delayed Navy's incorporation of tech refresh ECPs required for SSMM Hatch and Cover into FY 2025.

MCM MP

- Declared IOC for the Mine Countermeasures Mission Package (MCM MP) in March 2023.
- Declared IOC for the AN/AQS-20C Minehunt Sonar in March 2023.
- Six MCM Unmanned Surface Vehicles (MCM USVs) are undergoing backfit to correct Initial Operational Test and Evaluation (IOT&E) deficiencies. These backfits will be applied to all future Unmanned Surface Vehicles (USVs).
- MCM USV approved for Full Rate Production in September 2023.
- Awarded a follow-on contract option to Bollinger Shipyards for a total of nine MCM USVs in production.

ASW MP

- Pursuant to the Navy's decision to divest the ASW MP as enacted by FY 2023 budget, the Program completed actions for an orderly close out of ASW MP.
- Program completed its contract with Raytheon. It underwent actions including acceptance of the one Low-Rate Initial Production (LRIP) Dual-mode Array Transmitter (DART) Variable Depth Sonar (VDS) unit.
- Program debarked ASW equipment from the Navy's ASW MP test ship, LCS 3.

(U) History of Significant Developments Since Program Inception

| Date | Description |
|---------------|--|
| December 2022 | With completion of 2022 Gate 6 review, LCS MM was directed to update its current APB to reflect Procurement Quantity Changes outlined in 'LCS Procurement Quantity Changes' letter from N9 to PEO USC. (Reductions: AMNS 48 to 20, ALMDS 24 to 12, COBRA Blk I 24 to 5, SSMM 10 to 5, ASW EDM 10 to 1, ASW EMM EDM 1, ASW AVMM 10 to 0). |

| Date | Description |
|----------------|---|
| April 2022 | With the PB 2023 submission, the Navy reduced MP quantities to 35 MPs (24 MCM MPs, 10 SUW MPs, 1 ASW MP), and 5 non-deployable EDMs (1 MCM MP, 2 SUW MPs, 2 ASW MPs), 40 total MPs based on the planned LCS ship decommissionings and ASW MP divestment from LCS. |
| January 2021 | JROC approved revised Navy requirements in a new MCM MP Capabilities Development Document. |
| February 2020 | MDA signed ADM of February 14, 2020 increasing LRIP authority to 44 Mission Packages. |
| September 2018 | MDA approved the LCS MM Program re-baseline via APB Change 1. |
| August 2018 | MDA signed ADM of August 20, 2018 increasing quantity of developmental ASW MPs from one to two resulting in a total of 5 non-deployable EDM MPs. In addition, this ADM authorized removal of the LRIP decision (Milestone C) for the LCS MM Program on the basis that 12 of the 13 mission systems that comprise the LCS MM Program will achieve independent LRIP decisions as separate ACAT programs. |
| February 2018 | With the PB 2019 submission, the Navy reduced MP quantities (from 64 to 48 total MPs consisting of 44 deployable and 4 non-deployable Engineering Development Model (EDM) MPs) based upon the total planned 32 LCS class ships, pending FY 2018 and FY 2019 budget approvals, and CNO direction to use other Navy platforms (Vessels of Opportunity) to host the Mine Countermeasures (MCM) MP to comply with Section 1046 of the FY 2018 NDAA which prohibits the retirement of legacy MCM forces until the Navy has identified a replacement capability and procured a quantity of such systems to meet combatant MCM operational requirements that are currently being met by legacy forces. The PB 2020 submission supports procurement of 24 MCM MPs, 10 Surface Warfare (SUW) MPs, and 10 Anti-Submarine (ASW) MPs. |
| February 2016 | Chief of Naval Operations (CNO) directed the establishment of the LCS Review Team to review the LCS operations and sustainment strategy and number of mission packages required to support the LCS Seaframes. |
| December 2015 | Secretary of Defense Memo of December 14, 2015 directed the Navy to build no more than 40 LCS and Frigate and to down select to one variant no later than FY 2019. Navy submitted a 40 ship SAR (29 LCS / 11 Frigate), consistent with PB 2017 and SECDEF guidance. Navy initiated review of the LCS Mission Package quantities based on updated LCS quantities. |
| January 2014 | The program achieved Milestone B approving entry into the EMD phase and procurements of five developmental MPs and up to 27 LRIP MPs. |
| November 2013 | USD(AT&L) approved the APB based on a Resources & Requirements Review Board conducted August 6, 2013. Initial APB included a quantity 64 deployable mission packages (MPs). |
| October 2012 | USD(AT&L) signed ADM of October 3, 2012 re-designating the LCS MM program as an ACAT IC program. |
| April 2011 | ADM signed splitting the LCS Seaframe and LCS MMs into two separate MDAPs. |
| March 2004 | Milestone A / Program Initiation for the LCS Seaframes and Mission Modules. |

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

| Events | | APB Change 1 (Current) 9/28/2018 Objective / Threshold | | Current Estimate 12/31/2023 | Actual |
|--|-------------------------|---|-----------|-----------------------------------|--------|
| Milestone A (Combined LCS program) | MS A | May 2004 | May 2004 | May 2004 | - |
| Mission MP, Production, and Assembly contract award | FFO | Mar 2006 | Mar 2006 | Mar 2006 | - |
| First MCM MP delivery | First Asset Delivery | Sept 2007 | Sept 2007 | Sept 2007 | - |
| First SUW MP delivery | First Asset Delivery | Jul 2008 | Jul 2008 | Jul 2008 | - |
| Milestone A Prime | MS A | Aug 2009 | Aug 2009 | Aug 2009 | - |
| Milestone B | MS B | Jan 2014 | Jan 2014 | Jan 2014 | - |
| SUW MP IOC | IOC | Nov 2014 | Nov 2014 | Nov 2014 | - |
| ASW MP IOC | IOC | Sept 2020 | Sept 2021 | - | - |
| MCM MP IOC | IOC | Jun 2022 | Jun 2023 | Mar 2023 | - |

Notes

(Ch-1) Anti-Submarine Warfare (ASW) Mission Package (MP) IOC changed from June 2020 to N/A as the ASW MP was divested in FY 2023. With this divestment, the LCS MM Program will no longer have an ASW MP requirement.

Mine Countermeasures (MCM) MP IOC changed from June 2022 to March 2023 due to revised MCM MP test schedules driven by Unmanned Influence Sweep System (UISS) Initial Operational Test and Evaluation (IOT&E) delays and completion of system-level MCM Unmanned Surface Vehicle (USV) Minehunting contractor verification testing and availability of Sea Frame to complete testing. OPNAV declared MCM MP IOC on 31 MAR 2023.

Threshold dates for ASW MP and MCM MP IOC are set to 12 months vice 6 months to be consistent with the Milestone B APB. The test schedule is heavily reliant on ship availability and the duration of testing for the ASW and MCM MPs is approximately a year. Any small deviation in schedule would likely result in a schedule breach if objective to threshold remained at 6 months.

Items are listed as N/A above due to revision of Schedule Events when the APB was updated with LCS MM APB Change 1. Milestone C was removed because nearly all of the LCS mission systems that comprise the LCS MM Program's MPs achieve independent Milestone C decisions in separate acquisition programs. Additionally, the IOC dates for each MP were consolidated to a single IOC date for each warfare area instead of multiple increments.

Schedule Baseline Deviation Explanation

On June 7, 2021, the LCS MM Program notified the MDA of a schedule breach to the ASW MP IOC date due to delays completing formal ASW MP testing as a result of system hydrodynamic

instability, system availability, ship availability, and limited availability of submarine test assets for testing in FY 2020 and FY 2021.

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

| Event | Date | Description |
|---------|------------|--|
| Current | 12/31/2023 | The MCM MP and AN/AQS-20C declared IOC in March 2023. The program is addressing the effectiveness and suitability findings of the minehunting system and are on-track for an FY24 MCM MP delivery to support first deployments. |
| Current | 12/13/2022 | Completion of MCM MP IOT&E occurred in Aug 2022. PMS 420 received final IOT&E report in Jan 2023. OPNAV will declare MCM MP IOC following Fleet endorsement of recommendation to declare MCM MP expected in Q2 of FY 2023. In addition, the Minehunt MM will also declare IOC in Q2 of FY 2023. MCM MP IOC would still be in advance of the APB threshold of June 2023. The RMH Module, the final Mission Module to go through Individual Program of Record testing, including the MCM USV with the Minehunt PDS towing the AN/AQS-20C sonar, completed system operational testing in Q1 FY 2023. Based on initial information gathered from both MCM MP IOT&E and Minehunting operation testing, the Program has initiated and completed root cause assessments on findings impacting both the effectiveness and suitability of the minehunting system. PMS420 has provides a POA&M on addressing each of these findings with its recommendation for declaration of IOC of the AQS-20C sonar. |
| Current | 12/13/2022 | The Program has incurred production delays due to extended material lead times, sub-tier suppliers experiencing raw material shortages, and related labor complications as a result of the COVID-19 pandemic increasing schedule risk for mission system and support equipment/container hardware deliveries. For example, the Surface to Surface Missile Module (SSMM) Prime Contractor has indicated a potential schedule delay for the four SSMM in production because of COVID-19 impacts due to availability of Honeycomb panels as a result of the original supplier of the core material going out of business. The Program has accounted for this delay and is working with Fleet to establish a plan for deployment of the modules. The Fleet plans to continue to embark and deploy Surface Warfare (SUW) MPs with SSMMs as they deliver from the production line. The Program delivered the first production SSMM in February 2022 which was embarked on LCS 17 in support to a deployment in Q3 FY 2023, 10 deployable SUW MP with Gun Mission Modules (GMM), Maritime Security (MSM), and Aviation assets are operational and available to the Fleet. |
| Current | 12/31/2021 | The Program is tracking schedule risk to complete all entry criteria to support achieving MCM MP IOC in 4Q FY 2022. The Navy is currently conducting Minehunting testing at the system-level with the MCM USV, AQS-20 sonar, and Minehunting PDS. Based on testing progress, additional Minehunting Data Collection may be necessary to complete all test objectives planned at the system-level prior to MCM MP IOT&E. MCM MP End-to-End IOT&E is scheduled to complete in late 4Q FY 2022 with cyber security testing in 1Q FY 2023. Based on nominal test reporting timelines by OPTEVFOR and DOT&E, the outputs of which support IOC, the Program may not receive approved test reports until late 1Q FY 2023 resulting in a delay to MCM MP IOC. MCM MP IOC would still be in advance of the APB threshold of June 2023. |
| Current | 12/31/2021 | The Program has incurred production delays due to extended material lead times, sub-tier suppliers experiencing raw material shortages, and related labor complications as a result of the COVID-19 pandemic increasing schedule risk for mission system and support equipment/container hardware deliveries. For example, the Surface to Surface Missile Module (SSMM) Prime Contractor has |

| | | |
|---------|------------|---|
| | | indicated a potential schedule delay for the four SSMM in production because of COVID-19 impacts due to availability of Honeycomb panels as a result of the original supplier of the core material going out of business. The Program has accounted for this delay and working with Fleet to establish a plan for deployment of the modules. The Fleet plans to continue to embark and deploy Surface Warfare (SUW) MPs with SSMMs as they deliver from the production line. The Program has delivered the first production SSMM in February 2022 which will be ready for deployment in Q3 FY 2022, as well as all 10 deployable SUW MP with Gun Mission Modules (GMM), Maritime Security (MSM), and Aviation assets to the Fleet. |
| Current | 12/31/2021 | Completing testing for the ASW MP has high schedule risk. ASW MP maturation continued with design improvements and testing. Program schedule has been impacted by system reliability/hydrodynamic stability, LCS 3 (test platform) materiel availability, and submarine (target) availability during FY 2021. Program focus has been on maturing the underwater vehicle's hydrodynamic stability through the rapid implementation of active roll controls. Hydro maturation efforts are expected to last through July 2022. In part due to assessed high risk of the hydrodynamic corrective actions as well as transducer reliability and performance, PB 2023 divests the ASW mission for LCS. With this divestment, the Program will conduct an orderly shutdown of the ASW MP. Discussions are ongoing with the Original Equipment Manufacturer on the contractual way ahead. |
| Other | 9/1/2018 | The Program did not report any schedule risks in APB Change 1. |
| MS B | 1/1/2014 | Program is delivering mission systems as able to under sequestration-level budget constraint. Congressional Marks adversely impact ability to procure systems, delaying delivery of capability to the fleet to meet operational needs. |

(U) Performance

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

(U) Performance Attributes

| | | |
|---|-----------|---|
| SUW MP | | |
| Materiel Availability (1) | | KPP |
| Current Estimate 12/31/2023 | | .85 |
| Demonstrated Performance 1/22/2024 | | .78 (Operational Embarked data 22 Jan 2024) |
| APB Change 1 (Current) | Objective | .712 |
| 9/28/2018 | Threshold | .64 |
| Train-to-Certify: A trained crew is required for MP Billets / Watch Stations (1) | | KPP |
| Current Estimate 12/31/2023 | | Trained-to-Certify at all Team (Watch Section) levels |
| Demonstrated Performance - | | TBD |
| APB Change 1 (Current) | Objective | Trained-to-Certify at all Team (Watch Section) levels |
| 9/28/2018 | Threshold | Trained-to-Certify at all Team (Watch Section) levels |
| MCM MP | | |
| Materiel Availability (2) | | KPP |
| Current Estimate 12/31/2023 | | .78 |
| Demonstrated Performance - | | TBD |
| APB Change 1 (Current) | Objective | .712 |
| 9/28/2018 | Threshold | .64 |
| Train-to-Certify: A trained crew is required for MP Billets / Watch Stations (2) | | KPP |
| Current Estimate 12/31/2023 | | Trained-to-Certify at all Team (Watch Section) levels |
| Demonstrated Performance - | | - |
| APB Change 1 (Current) | Objective | Trained-to-Certify at all Team (Watch Section) levels |
| 9/28/2018 | Threshold | Trained-to-Certify at all Team (Watch Section) levels |
| ASW MP | | |
| Materiel Availability (3) | | KPP |
| Current Estimate 12/31/2023 | | N/A |
| Demonstrated Performance | | - |

| | | |
|--|-----------|---|
| - | | |
| APB Change 1 (Current) | Objective | .712 |
| 9/28/2018 | Threshold | .64 |
| Train-to-Certify: A trained crew is required for MP Billets / Watch Stations (3) | | KPP |
| Current Estimate 12/31/2023 | | N/A |
| Demonstrated Performance - | | - |
| APB Change 1 (Current) | Objective | Trained-to-Certify at all Team (Watch Section) levels |
| 9/28/2018 | Threshold | Trained-to-Certify at all Team (Watch Section) levels |

(U) Requirement Source:

Sponsor(s): None

1. Document Type Not Provided

Notes: LCS Flight 0 Capability Development Document (CDD) dated May 25, 2004 and LCS Flight 0+ CDD dated June 17, 2008

Notes

Reflects APB Change 1 requirements.

OPNAV declared IOC for the MCM MP on 31 March 2023. The MCM MP IOT&E concluded in August 2022, and MCM MP received an Operationally effective and suitable report from Operational Test and Evaluation Force (OPTEVFOR) in January 2023. Separate from the MCM MP, a letter recommending the declaration of IOC for the AN/AQS-20 Mine Detection Set was issued on 31 March 2023, addressing findings from the AN/AQS-20 Operational Test report, and will contain a similar POA&M.

By IOC, the MCM MP met the majority of KPPs and Key System Attributes (KSAs) in the approved MCM MP CDD (Capability Development Document). The Survivability KPP will be met at Full Operational Capability (FOC). The Train-to-Certify KSA will be met by Q3 FY 2025.

Interoperability Information Exchange Requirement KPP replaced by Net Ready KPP.

Classified Performance is available in Classified Annex.

Performance Deviation Explanation

None

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

| Category (\$M) Base Year: 2010 | APB Change 1 (Current) 9/28/2018 CY\$ obs Objective / Threshold | | Current Estimate PB 2025 CY\$ obs / TY\$ obs | |
|--------------------------------|---|---------|--|---------|
| | RDT&E | 2,369.3 | 2,606.2 | 2,365.7 |
| Procurement | 3,279.6 | 3,634.3 | 2,293.1 | 3,057.4 |
| MILCON | 36.1 | 39.7 | 34.0 | 44.4 |
| O&M | 0.0 | 0.0 | 0.0 | 0.0 |
| R&MF | - | - | 0.0 | 0.0 |
| Total Acquisition | 5,685.0 | - | 4,692.8 | 5,640.9 |
| Program Acquisition Unit Cost | 116.020 | 128.168 | 117.320 | 141.023 |
| Average Procurement Unit Cost | 74.536 | 84.519 | 65.517 | 87.354 |
| Program End-Item Quantity | | | | |
| Development | 5 | | 5 | |
| Procurement | 44 | | 35 | |
| O&M-Acquired | - | | - | |

Budget Notes

RDT&E, Navy; Other Procurement, Navy (OPN); and Weapons Procurement, Navy (WPN) costs associated with replacement, attrition, and technology refresh (RAT) costs are accounted for in O&S per the LCS MM APB.

? RDT&E, Navy reflects PB 2025 budget controls, however, RDT&E,N for this SAR submission deviates from the PB 2025 budget due to RAT costs for the development associated with obsolescence/technology refreshes for the Mission Package Computing System (MPCE) and Multiple Vehicle Communications System (MVCS), which are being captured under O&S. RDT&E,N further deviates from budget in this SAR to fully account for divestment of the ASW MP.

? OPN reflects PB 2025 controls, however, OPN for this SAR submission deviates from the PB 2025 budget due to RAT costs for Airborne Mine Neutralization System, Airborne Laser Mine Detection System, Gun Module Modernization, and 11m Rigid Hull Inflatable Boats, Surface Warfare Mission Package Obsolescence, MPCE, Mission Package Portable Control Station (MPPCS), MVCS, and Common Mission Package Trainer obsolescence/technology refreshes which are being captured under O&S. OPN further deviates from budget in this SAR to fully account divestment of the ASW MP.

? WPN includes initial procurement costs for the Longbow Hellfire missiles for the Surface to Surface Missile Module (SSMM). WPN costs for replenishment missiles accounted for in O&S.

Quantity Notes

The LCS MM Program uses Mission Packages (MP) as its quantity unit of measure. A MP consists

of mission modules, plus a mission crew detachment and supporting aircraft. The program provides funding to other programs for the purpose of procuring mission systems (MS). These MS (offboard vehicles, sensors, and weapons) are then combined with common mission modules equipment. For the purposes of Congressional visibility into program execution, the annual PB submission breaks out these MS procurements in detail.

The PB 2024 quantities follows that of the FY 2023 submission, when the Navy revised the LCS MM Program quantities to align with the proposed LCS decommissionings and to reflect the planned divestment of the ASW MP from LCS. The revised quantities include a total of 35 MPs as follows:

? 24 MCM MPs for LCS and Vessels Of Opportunity (VOOs)

? 10 Surface Warfare (SUW) MPs

? 1 Anti-Submarine Warfare (ASW) MP ? previously procured with FY 2020 and FY 2021 funds.

The 24 deployable MCM MPs will support the 15 Independence variant LCS (LCS 10-38) and the Chief of Naval Operations direction to use other Navy platforms (VOOs) to comply with Section 1046 of the FY 2018 National Defense Authorization Act (NDAA) (P.L. 115-91), as modified by the FY 2021 NDAA (P.L. 116-283), which prohibits the retirement of legacy MCM forces until the Navy has identified a replacement capability, and OSD Director, Operational Test & Evaluation (DOT&E) has certified that capability, and procured a quantity of such systems to meet combatant MCM operational requirements that are currently being met by legacy forces. The 10 deployable SUW MPs procured from FY 2010 to FY 2018 will support 6 Freedom variant LCS ? LCS 21, 23, 25, 27, 29, and 31. All 10 SUW MPs will remain in-service to support LCS deployments until MCM MPs are delivered in quantities sufficient to support LCS 10-38.

The 35 MPs along with five non-deployable EDM MPs equate to 40 total MPs. The 35 MPs are comprised of deployable, production representative systems (one deployable SUW MP was procured with both RDT&E, Navy and Other Procurement, Navy (OPN) and is included in the inventory objective of 10 SUW MPs), as well as the one production ASW MP procured with FY 2020- FY 2021 OPN funds. The five non-deployable EDM assets are comprised of one MCM MP, two SUW MPs, and two ASW MP, which are not included in the deployable MP quantities.

Cost Baseline Deviation Explanation

None

(U) Risk and Sensitivity Analysis

| Current Procurement Estimate Risks (12/31/2023) | |
|---|--|
| 1 | The Program has incurred production delays due to extended material lead times, sub-tier suppliers experiencing raw material shortages, and related labor complications as a result of increasing risk for procurement cost overruns for mission systems, support equipment, and support container hardware. |
| Current Baseline Risks (9/28/2018) | |
| In support of the FY 2018 program re-baseline, a Program Life Cycle Cost Estimate (PLCCE) was developed as the cost baseline for the revised APB (APB Change 1 approved September 2018). The program performed a risk assessment on the remaining drivers of acquisition cost impacting Program Acquisition Unit Cost (PAUC) and Average Procurement Unit Cost (APUC). The risk assessment resulted in a point estimate above the 50th percentile for the areas assessed. The program established APB Change 1 based on the point estimate results as any risk adjustment would underfund known costs for mature systems or underfund systems with more technical risk. The Navy is working to address any funding shortfalls identified between the current estimate and the PB 2021 budget. | |
| Original Baseline Risks (11/27/2013) | |
| Navy accepted full funding responsibility in accordance with the Service Cost Position policy in support of the FY 2014 – FY 2018 FYDP. | |

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

| Category (CY\$M) Base Year: 2010 | Current Baseline 09/28/2018 | Current Estimate PB 2025 | % Change |
|--------------------------------------|--------------------------------|-----------------------------|----------|
| Program Acquisition Unit Cost | | | |
| Acquisition Cost | 5,685.0 | 4,692.8 | |
| Program Quantity | 49 | 40 | |
| PAUC | 116.020 | 117.320 | 1.12% |
| Average Procurement Unit Cost | | | |
| Procurement Cost | 3,279.6 | 2,293.1 | |
| Procurement Quantity | 44 | 35 | |
| APUC | 74.536 | 65.517 | -12.10% |

(U) Current Estimate Compared with Original Baseline

| Category (CY\$M) Base Year: 2010 | Original Baseline 11/27/2013 | Current Estimate PB 2025 | % Change |
|--------------------------------------|---------------------------------|-----------------------------|----------|
| Program Acquisition Unit Cost | | | |
| Acquisition Cost | 6,379.5 | 4,692.8 | |
| Program Quantity | 64 | 40 | |
| PAUC | 99.680 | 117.320 | 17.70% |
| Average Procurement Unit Cost | | | |
| Procurement Cost | 4,116.7 | 2,293.1 | |
| Procurement Quantity | 59 | 35 | |
| APUC | 69.775 | 65.517 | -6.10% |

(U) Cost Growth Details**Impacts of Schedule Changes on Unit Cost**

Not provided in SAR.

Impacts of Performance Changes on Unit Cost

Not provided in SAR.

Actions taken or Proposed to Control Future Cost Growth

Not provided in SAR.

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

See Contracts section.

Notes

None

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

| Category (\$M) Base Year: 2010 | APB Change 1 (Current) 9/28/2018 CY\$ obs Objective / Threshold | | Current Estimate CY\$ obs / TY\$ obs | |
|--------------------------------|---|----------|---|----------|
| | Total O&S | 16,819.9 | 18,501.9 | 11,088.0 |
| Total Disposal | - | - | - | - |

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

Type: Program Office Estimate

Approved by: D, CAPE, September 28, 2018

Operating and Support Baseline Deviation Explanation

None

Cost Notes

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

- Current Baseline of \$152.4M (APB Change 1 Program Life Cycle Cost Estimate)
- Current Estimate of \$118.0M (Program Office Estimate)

b. Sustainment Strategy:

The Navy has decided to focus the San Diego homeported Independence Variant Hulls to an MCM MP focused configuration. While Mayport homeported Freedom Variant Hulls will be SUW MP configured. Until enough MCM MPs are delivered to outfit all Independence Variant Hulls, some West Coast ships will be outfitted with the SUW MP or a partial Maritime Security Module (MSM) configuration. Once embarked, the modular MPs provide the main warfighting capability to mitigate gaps in littoral MCM and SUW missions. The LCS Seaframes retain the flexibility to adjust this division structure as needed to address changing Fleet operational requirements. Division structure has been modified over the past two years to support fleet tasking. The concept of employment for LCS, which includes routine deployments overseas and prepositioned support facilities in potential theaters of operation [Forward Operating Sites, contributes to strategic deterrence and maintaining material availability.

Based on crew size the LCS has limited onboard resources to maintain and at times repair the mission systems that make up the MPs. Because of this, maintenance and repair work is assigned to an off-ship, shore-based workforce which is also utilized to execute the embarkations and debarkations of the MPs from the ships. The LCS MMs are maintained, stored, and centrally managed through the Mission Package Support Facility (MPSF). The MPSF executes and manages maintenance, provides technical support, manages spares, and ensures components (mission systems, mission modules, support containers, support equipment, or other equipment) are

delivered to the Fleet. The MPSF plans, arranges, schedules, coordinates, and manages the execution of all maintenance tasks. The MPSF receives requests from the deployed or embarked MPs and translates the requests into required actions – this results in a seamless process and a single MP support interface to Fleet units. Individual mission systems maintenance plans describe specific mission system requirements and tasks necessary to sustain, maintain, or restore operational capability. Maintenance is performed by the crew, by the MPSF staff, by organic Navy resources, or by a contractor, as appropriate. The MPSF workforce is comprised of government and contractor personnel and has the ability to handle surge, low volume, and specialized tasks via other Government or Contractor resources.

Subordinate to the MPSF, the LCS MM Program established Mission Module Readiness Centers (MMRCs) at Continental United States (CONUS) sites and forward Outside Continental United States (OCONUS) locations to directly support deployed operations. The MMRCs are staffed and outfitted to execute appropriate maintenance, administrative, and storage capabilities at the homeports and FOS Locations. The MMRCs provide support for specific location operations (e.g., embarkation/debarkation evolutions corrective maintenance, and preventative maintenance availabilities (PMAVs)).

The LCS MM Program has a dedicated Product Support Manager (PSM) who is responsible for managing the support functions to ensure the mission modules that make-up and MPs are available. The PSM monitors and reports failures of system-level performance against Participating Acquisition Resource Manager (PARM)-initiated support contract requirements, assessing existing contractual requirements against needs and experiences, and seeks alternatives where contractual adjustments are not possible or feasible to improve performance. The PSM is responsible for data identification, collection, and analysis that correlates hardware and sustainment systems performance. This analysis determines which issues demand product and/or process improvement, what near-term mitigation is possible, and what long-term solutions are needed. In addition to the system contracts made available by the PARMs, the LCS MM Program utilizes In-Service Engineer Agents (ISEAs) and other organic Navy support to provide maintenance planning, technical documentation, engineering services, training support and development, and spares/material support. The LCS MM Program has different transition timelines for each system within a MP from interim to full MPSF support based on development schedule, production deliveries and maturity of logistics documentation. Interim support for a system is/has been provided by the Original Equipment Manufacturer (OEM) or the Government Technical Design Activity (TDA).

c. For Each Acquired System or System Variant:

- i. Quantity to Sustain: 34 (24 Deployable MCM MPs, 10 Deployable SUW MPs)
 - ii. First Operational Fiscal Year: FY 2009
 - iii. Final Operational Fiscal Year: FY 2049
 - iv. Unit Expected Service Life: 25 Years
- d. Antecedent System(s) O&S Costs: no antecedent

(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: 2010

| System | Unit-Level Manpower | Unit Operations | Maintenance | Sustaining Support | Continuing System Improvements | Other | Total |
|---------|---------------------|-----------------|-------------|--------------------|--------------------------------|-------|----------|
| LCS MM | 1,732.1 | 143.8 | 4,520.6 | 603.3 | 3,170.2 | 918.0 | 11,088.0 |
| Program | 1,732.1 | 143.8 | 4,520.6 | 603.3 | 3,170.2 | 918.0 | 11,088.0 |

(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

None

Antecedent Estimate Assumptions

None

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 | 12/1/2023 | MCM USV obstacle avoidance and link loss serious Hazard Assessment Reports (HARs) being developed and staffed to address immediate and long-term mitigating actions for operational use. |
| Other | 9/1/2018 | The Program did not report any technical risks in APB Change 1. |
| MS B | 1/1/2014 | Risk that Mine Countermeasures (MCM) Mission Package (MP) Deep Volume Focused Minehunting (DVFHM) Sustained Area Coverage Rate (ACRS) will be below requirements if the individual Program of Record (PoR) mission systems do not achieve their required performance, or if the System of System (SOS) assumptions are incorrect. |

(U) Performing Activities and Contracts**(U) External Government Activities**

None

(U) Contracts and Efforts

| Contract Title | Contract Number / Effort | Contractor | Phase |
|---|--------------------------|--------------------------------------|-------------|
| Anti-Submarine Warfare Rapid Technology Insertion (RTI) | N66604-15-C-086C | Raytheon Company | Development |
| Design, Engineering, Production & Sustainment | N00024-17-C-6311 | NORTHROP GRUMMAN SYSTEMS CORPORATION | Production |
| Mission Package Computing, Software, and Trainers | N00024-19-C-6311 | ADVANCED ACOUSTIC CONCEPTS, LLC | Production |

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

| | | | |
|----------------------------------|---|-----------------------------|---------------|
| Contract Number: | N66604-15-C-086C | Order Number: | N/A |
| Contract Title: | Anti-Submarine Warfare Rapid Technology Insertion (RTI) | Strategy: | - |
| CAGE: | 94404 - Raytheon Company | Contracting Office: | - |
| City, State/Province: | Portsmouth, RI | | |
| Effort Number: | - | Supported Phase: | Development |
| Type: | Firm-Fixed-Price | Award Date: | July 22, 2015 |
| Latest Modification Date: | - | Definitization Date: | - |
| Latest Modification No.: | P00074 | Work Start Date: | - |
| Technical Data Rights: | - | | |
| Notes: | <p>Contract Notes: Target Price reflects funded value on contract. Initial Target Price includes funded value for CLINs awarded on contract at time of award. Current Target Price includes funded value for all CLINs exercised on contract due date. Ceiling Price reflects total value of the contract if all available options are exercised. Current Target and Ceiling Prices reflect inclusion of additional labor hours and other direct costs for test and integration, engineering change proposals and period of performance extensions, as well as inclusion of additional hardware production stepladders for Variable Depth Sonar procurements.</p> <p>Cost Variance: Cost Variances are not reported for this contract, because all active non-level of effort CLINs are firm fixed priced and no EVM reporting is required because the threshold requirements for EVM reporting are not met.</p> <p>Schedule Variance: Schedule Variances are not reported for this contract, because all active non-level of effort CLINs are firm fixed priced and no EVM reporting is required because the threshold requirements for EVM reporting are not met.</p> | | |

| Initial Price (TY\$M) Target / Ceiling | Current Price (TY\$M) Target / Ceiling | Estimate at Completion (TY\$M) Contractor / PM | Initial Quantity | Current Quantity | Delivered Quantity |
|---|---|---|------------------|------------------|--------------------|
| 26,717,000.0 | 101,914,173.0 | 101,733,174.0 | 173,005,923.0 | - | - |

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

| | | | |
|----------------------------------|---|-----------------------------|----------------|
| Contract Number: | N00024-17-C-6311 | Order Number: | N/A |
| Contract Title: | Design, Engineering, Production & Sustainment | Strategy: | - |
| CAGE: | 26512 - NORTHROP GRUMMAN SYSTEMS CORPORATION | Contracting Office: | - |
| City, State/Province: | Bethpage, NY | | |
| Effort Number: | - | Supported Phase: | Production |
| Type: | Firm-Fixed-Price | Award Date: | March 16, 2017 |
| Latest Modification Date: | - | Definitization Date: | March 16, 2017 |
| Latest Modification No.: | P00098 | Work Start Date: | - |
| Technical Data Rights: | - | | |
| Notes: | <p>Contract Notes: Target Price reflects funded value on contract. Initial Target Price includes funded value for CLINs awarded on contract at time of award. Current Target Price includes funded value for all CLINs exercised on contract due date. Ceiling Price reflects total value of the contract if all available options are exercised. Cost Variance: Cost Variances are not reported for this contract, because all active non-level of effort CLINs are firm fixed priced and no EVM reporting is required because the threshold requirements for EVM reporting are not met. Schedule Variance: Schedule Variances are not reported for this contract, because all active non-level of effort CLINs are firm fixed priced and no EVM reporting is required because the threshold requirements for EVM reporting are not met.</p> | | |

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

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

| | | | |
|------------------------------|---|----------------------------|--------------------|
| Contract Number: | N00024-19-C-6311 | Order Number: | - |
| Contract Title: | Mission Package Computing, Software, and Trainers | Strategy: | - |
| CAGE: | 4GPS8 - ADVANCED ACOUSTIC CONCEPTS, LLC | Contracting Office: | - |
| City, State/Province: | Hauppauge, NY | | |
| Effort Number: | - | Supported Phase: | Production |
| Type: | Firm-Fixed-Price | Award Date: | September 27, 2019 |

Latest Modification Date: - **Definitization Date:** -
Latest Modification No.: P00017 **Work Start Date:** -
Technical Data Rights: -

Notes: Target Price reflects funded value on contract. Initial Target Price includes funded value for CLINs awarded on contract at time of award. Current Target Price includes funded value for all CLINs exercised on contract due date. Ceiling Price reflects total value of the contract if all available options are exercised.
Cost Variance:
 Cost Variances are not reported for this contract, because all active non-level of effort CLINs are firm fixed priced and no EVM reporting is required because the threshold requirements for EVM reporting are not met.
Schedule Variance:
 Schedule Variances are not reported for this contract, because all active non-level of effort CLINs are firm fixed priced and no EVM reporting is required because the threshold requirements for EVM reporting are not met.

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

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

| | Original LRIP Determination | Current LRIP Determination |
|----------------------------|-----------------------------|----------------------------|
| Total LRIP Quantity | 27 | 44 |
| Date | 1/7/2014 | 2/14/2020 |
| Reference | Milestone B ADM | ADM |
| LRIP Period | FY 2006 - 2018 | FY 2006 - 2032 |
| Total Procurement Quantity | 59 | 35 |
| LRIP Percentage of Total | 45.8% | 125.7% |

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

The Current Total LRIP Quantity is more than 10% of the total production quantity due to leveraging several individual Programs of Record (PoRs) as separate ACAT programs.

LRIP Notes

The Navy determined there is no meaningful FRP decision needed for the LCS MM Program since systems are in production as part of individual PoRs. As such, the Navy increased the authorized LRIP quantity in February 2020 to 44 MPs (24 Mine Countermeasures (MCM) Mission Package (MP), 10 Anti-Submarine Warfare (ASW) MP, and 10 Surface Warfare (SUW) MP) based on the certified quantity in the PB 2019 submission.

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

| | Total Estimate | Actual to Date | Actual, Percent Complete |
|--------------------------|----------------|----------------|--------------------------|
| Years Appropriated | 32 | 20 | 62.5% |
| Appropriations (TY, \$M) | 5,640.9 | 4,603.9 | 81.6% |
| Expenditures (TY, \$M) | 5,640.9 | 3,862.0 | 68.5% |

(U) End Items Delivered

| | Total Required | Planned to Date | Actual to Date | Actual, Percent Complete |
|--------------|----------------|-----------------|----------------|--------------------------|
| Development | 5 | | | |
| LCS MM | | 5 | 5 | |
| Procurement | 35 | | | |
| LCS MM | | 11 | 11 | |
| Total | 40 | 16 | 16 | 40.0% |

Notes

10 Surface Warfare (SUW) Mission Packages (MPs) and 1 Mine Countermeasures (MCM) MP already delivered and included in production deliveries.

With completion of 2022 Gate 6 review, LCS MM was directed to update its current APB to reflect Procurement Quantity Changes outlined in 'LCS Procurement Quantity Changes' letter from N9 to PEO USC. (Reductions: AMNS 48 to 20, ALMDS 24 to 12, COBRA Blk I 24 to 5, SSMM 10 to 5, ASW EDM 10 to 1, ASW EMM EDM 1, ASW AVMM 10 to 0). Due to these reductions from the 2021 report to the 2022 report, the total acquisition cost has significantly decreased.



UNCLASSIFIED

**Modernized
Selected Acquisition Report
Supplement**

**Littoral Combat Ship Mission Modules
(LCS MM)**

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

Littoral Combat Ship Mission Modules

Short Name

LCS MM

PNO

443

Lead Component

Navy

AAF Pathway

MCA

Acquisition Type

MDAP

Acquired Systems

LCS MM; LCS Mine Countermeasures Mission Package; LCS Surface Warfare Mission Package

Related Programs

| Full Name | PNO | Pathway | Type | ACAT/ BCAT | Acquisition Status | Costs in SAR? | |
|--|-----|---------|------|---------------|-----------------------|---------------|-----|
| | | | | | | Acq | O&S |
| AN/AQS-20A SONAR MINE DETECTING SET | | MCA | AP | II | Active | No | No |
| SURFACE MINE COUNTERMEASURE UNMANNED UNDERSEA VEHICLE (Knifefish) | | MCA | AP | II | Active | No | No |
| MINE COUNTERMEASURES UNMANNED SURFACE VEHICLE | | MCA | AP | II | Active | No | No |
| BARRACUDA MINE NEUTRALIZATION SYSTEM | | MCA | AP | II | Active | No | No |

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

Littoral Combat Ship Mission Modules

Major Software Efforts

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

Major Engineering Changes

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

Funding Sources (Acquisition)**Acquisition Funding Notes**

None

Littoral Combat Ship Mission Modules

| Category | Account | BA | Line Item | Program Element | RDT&E Project | Shared | Sunk |
|-------------|---------|----|---|-----------------|--|--------|------|
| RDT&E | 1319N | 04 | 0603596N - LCS Mission Modules | 0603596N | 2550 - Mine Countermeasure (MCM) Mission Package | | |
| RDT&E | 1319N | 04 | 0603596N - LCS Mission Modules | 0603596N | 2552 - Surface Warfare (SUW) Mission Package | | |
| RDT&E | 1319N | 04 | 0603596N - LCS Mission Modules | 0603596N | 3129 - LCS Mission Package Development | | |
| Procurement | 1810N | 01 | 1600 - LCS Common Mission Modules Equipment | 0204230N | - | | |
| Procurement | 1810N | 01 | 1601 - LCS MCM Mission Modules | 0204230N | - | | |
| Procurement | 1810N | 01 | 1602 - LCS ASW Mission Modules | 0204230N | - | | x |
| Procurement | 1810N | 01 | 1603 - LCS SUW Mission Modules | 0204230N | - | | |
| Procurement | 1507N | 04 | 4221 - LCS Module Weapons | 0204230N | - | | |

Funding Sources (Operating and Support)

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

Operating and Support Funding Notes

None

Littoral Combat Ship Mission Modules

| Category | Account | BA | Line Item | Program Element | RDT&E Project | Shared | Sunk |
|----------|---------|----|---|-----------------|---------------|--------|------|
| O&M | 1804N | 01 | 1B1B - Mission and Other Ship Operations | 0204230N | - | | |
| O&M | 1804N | 01 | 1C1C - Combat Communications and Electronic Warfare | 0204230N | - | | |
| O&M | 1804N | 01 | 1C1C - Combat Communications and Electronic Warfare | 0702898N | - | | |
| O&M | 1804N | 01 | 1B4B - Ship Depot Maintenance | 0204230N | - | | |
| O&M | 1804N | 01 | 1D4D - Weapons Maintenance | 0708017N | - | x | |

Acquisition Estimate and Quantity Summary

Littoral Combat Ship Mission Modules

Acquisition Estimates

| Category | PB 2025 | TY (\$M) | Current Base Year | Original Base Year | Report Fiscal Year |
|--------------------------|---------|----------------|-------------------|--------------------|--------------------|
| | | | CY2010 (\$M) | CY2010 (\$M) | CY2024 (\$M) |
| RDT&E | | 2,539.1 | 2,365.2 | 2,365.2 | 3,285.0 |
| Procurement | | 3,057.4 | 2,291.9 | 2,291.9 | 3,183.2 |
| MILCON | | 44.4 | 34.0 | 34.0 | 47.2 |
| O&M | | - | - | - | - |
| Total Acquisition | | 5,640.8 | 4,691.1 | 4,691.1 | 6,515.4 |
| PAUC | | 141.021 | 117.278 | 117.278 | 162.886 |
| APUC | | 87.355 | 65.483 | 65.483 | 90.949 |

Acquisition End-Item Quantities

| System | PB 2025 | Development | Procurement |
|--|---------|-------------|-------------|
| LCS MM | | 5 | 35 |
| LCS Mine Countermeasures Mission Package | | - | - |
| LCS Surface Warfare Mission Package | | - | - |
| Total | | 5 | 35 |

Unit Description

The LCS MM Program uses Mission Packages (MP) as its quantity unit of measure. A MP consists of mission modules, plus a mission crew detachment and supporting aircraft. The program provides funding to other programs for the purpose of procuring mission systems (MS). These MS (offboard vehicles, sensors, and weapons) are then combined with common mission modules equipment. For the purposes of Congressional visibility into program execution, the annual PB submission breaks out these MS procurements in detail.

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

| Appropriation | Prior | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | To Complete | Total |
|----------------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|
| RDT&E | 2,452.9 | 17.8 | 15.2 | 18.3 | 11.5 | 11.6 | 11.8 | - | 2,539.1 |
| Procurement | 1,694.8 | 143.5 | 182.9 | 140.2 | 95.4 | 89.1 | 93.4 | 618.0 | 3,057.4 |
| MILCON | 44.4 | - | - | - | - | - | - | - | 44.4 |
| O&M | - | - | - | - | - | - | - | - | - |
| PB 2025 Total | 4,192.1 | 161.3 | 198.1 | 158.5 | 106.9 | 100.7 | 105.2 | 618.0 | 5,640.8 |

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Littoral Combat Ship Mission Modules

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

| 1319N - Research, Development, Test & Eval, Navy | | | | | |
|--|--|-----------------------|------------------|------------------|-----------------------|
| fiscal year | | Other/ Unallocated | Total TY(\$M) | Weighted Rate | Total CY2010 (\$M) |
| Total | | 2,539.1 | 2,539.1 | - | 2,365.2 |
| 2004 | | 42.700 | 42.7 | 0.894705 | 47.7 |
| 2005 | | 81.300 | 81.3 | 0.918253 | 88.5 |
| 2006 | | 193.900 | 193.9 | 0.946866 | 204.8 |
| 2007 | | 167.300 | 167.3 | 0.970057 | 172.5 |
| 2008 | | 98.100 | 98.1 | 0.987752 | 99.3 |
| 2009 | | 167.900 | 167.9 | 1.000436 | 167.8 |
| 2010 | | 157.700 | 157.7 | 1.015442 | 155.3 |
| 2011 | | 80.600 | 80.6 | 1.039687 | 77.5 |
| 2012 | | 140.680 | 140.7 | 1.056930 | 133.1 |
| 2013 | | 196.880 | 196.9 | 1.068029 | 184.3 |
| 2014 | | 204.220 | 204.2 | 1.083120 | 188.5 |
| 2015 | | 172.800 | 172.8 | 1.096748 | 157.6 |
| 2016 | | 188.900 | 188.9 | 1.117104 | 169.1 |
| 2017 | | 116.420 | 116.4 | 1.138005 | 102.3 |
| 2018 | | 120.200 | 120.2 | 1.165880 | 103.1 |
| 2019 | | 84.841 | 84.8 | 1.188335 | 71.4 |
| 2020 | | 95.166 | 95.2 | 1.232034 | 77.2 |
| 2021 | | 54.086 | 54.1 | 1.287407 | 42.0 |
| 2022 | | 66.608 | 66.6 | 1.354664 | 49.2 |
| 2023 | | 22.631 | 22.6 | 1.394993 | 16.2 |
| 2024 | | 17.822 | 17.8 | 1.426838 | 12.5 |
| 2025 | | 15.223 | 15.2 | 1.457105 | 10.4 |
| 2026 | | 18.293 | 18.3 | 1.487705 | 12.3 |
| 2027 | | 11.453 | 11.5 | 1.518946 | 7.5 |
| 2028 | | 11.554 | 11.6 | 1.550844 | 7.5 |
| 2029 | | 11.790 | 11.8 | 1.583412 | 7.4 |

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Littoral Combat Ship Mission Modules

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

| 1810N - Other Procurement, Navy | | | | | | | | | |
|---------------------------------|----------------------------|--------------------------------|-----------------------|----------------|------------------|--------------------|----------------|---------------|--------------------|
| fiscal year | End Item Recurring Flyaway | Non-End Item Recurring Flyaway | Non-Recurring Flyaway | Initial Spares | Depot Activation | Other/ Unallocated | Total TY(\$M) | Weighted Rate | Total CY2010 (\$M) |
| Total | 2,775.1 | - | - | 187.3 | - | - | 2,962.4 | - | 2,230.6 |
| 2004 | - | | | - | | | - | 0.904060 | - |
| 2005 | - | | | - | | | - | 0.929514 | - |
| 2006 | 35.270 | | | - | | | 35.3 | 0.960313 | 36.7 |
| 2007 | 77.741 | | | - | | | 77.7 | 0.981218 | 79.2 |
| 2008 | - | | | - | | | - | 0.997164 | - |
| 2009 | 7.242 | | | - | | | 7.2 | 1.010309 | 7.2 |
| 2010 | 80.772 | | | - | | | 80.8 | 1.029836 | 78.4 |
| 2011 | 43.712 | | | 4.115 | | | 47.8 | 1.044894 | 45.8 |
| 2012 | 65.466 | | | 1.737 | | | 67.2 | 1.061519 | 63.3 |
| 2013 | 88.883 | | | 0.413 | | | 89.3 | 1.076055 | 83.0 |
| 2014 | 90.700 | | | 9.162 | | | 99.9 | 1.090375 | 91.6 |
| 2015 | 56.741 | | | 10.428 | | | 67.2 | 1.106099 | 60.7 |
| 2016 | 121.637 | | | 6.335 | | | 128.0 | 1.126122 | 113.6 |
| 2017 | 63.406 | | | 4.105 | | | 67.5 | 1.150042 | 58.7 |
| 2018 | 85.379 | | | 5.426 | | | 90.8 | 1.176250 | 77.2 |
| 2019 | 136.554 | | | 3.176 | | | 139.7 | 1.204793 | 116.0 |
| 2020 | 130.329 | | | 8.754 | | | 139.1 | 1.247216 | 111.5 |
| 2021 | 267.929 | | | 13.229 | | | 281.2 | 1.308231 | 214.9 |
| 2022 | 81.306 | | | 14.888 | | | 96.2 | 1.363715 | 70.5 |
| 2023 | 130.770 | | | 8.964 | | | 139.7 | 1.403194 | 99.6 |
| 2024 | 128.455 | | | 11.804 | | | 140.3 | 1.435000 | 97.7 |
| 2025 | 164.201 | | | 16.215 | | | 180.4 | 1.465431 | 123.1 |
| 2026 | 127.871 | | | 10.085 | | | 138.0 | 1.496205 | 92.2 |
| 2027 | 84.424 | | | 8.753 | | | 93.2 | 1.527626 | 61.0 |
| 2028 | 77.567 | | | 9.231 | | | 86.8 | 1.559706 | 55.7 |
| 2029 | 78.312 | | | 12.734 | | | 91.0 | 1.592460 | 57.2 |
| 2030 | 99.514 | | | 4.399 | | | 103.9 | 1.625901 | 63.9 |
| 2031 | 95.957 | | | 4.303 | | | 100.3 | 1.660045 | 60.4 |
| 2032 | 85.975 | | | 4.106 | | | 90.1 | 1.694906 | 53.1 |
| 2033 | 76.604 | | | 3.869 | | | 80.5 | 1.730499 | 46.5 |
| 2034 | 57.406 | | | 3.181 | | | 60.6 | 1.766840 | 34.3 |
| 2035 | 50.411 | | | 2.949 | | | 53.4 | 1.803943 | 29.6 |
| 2036 | 40.110 | | | 2.292 | | | 42.4 | 1.841826 | 23.0 |
| 2037 | 25.806 | | | 1.526 | | | 27.3 | 1.880504 | 14.5 |
| 2038 | 17.820 | | | 1.119 | | | 18.9 | 1.919995 | 9.9 |
| 2039 | 0.588 | | | - | | | 0.6 | 1.960315 | 0.3 |
| 2040 | 0.274 | | | - | | | 0.3 | 2.001482 | 0.1 |

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Littoral Combat Ship Mission Modules

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 CY2010 (\$M) |
| Total | 95.0 | - | - | - | - | - | 95.0 | - | 61.3 |
| 2004 | - | | | | | | - | 0.912760 | - |
| 2005 | - | | | | | | - | 0.937973 | - |
| 2006 | - | | | | | | - | 0.961525 | - |
| 2007 | - | | | | | | - | 0.982459 | - |
| 2008 | - | | | | | | - | 0.998005 | - |
| 2009 | - | | | | | | - | 1.012343 | - |
| 2010 | - | | | | | | - | 1.029631 | - |
| 2011 | - | | | | | | - | 1.049338 | - |
| 2012 | - | | | | | | - | 1.065134 | - |
| 2013 | - | | | | | | - | 1.080270 | - |
| 2014 | - | | | | | | - | 1.095308 | - |
| 2015 | - | | | | | | - | 1.113175 | - |
| 2016 | - | | | | | | - | 1.134088 | - |
| 2017 | 2.776 | | | | | | 2.8 | 1.158643 | 2.4 |
| 2018 | 4.189 | | | | | | 4.2 | 1.190463 | 3.5 |
| 2019 | 11.350 | | | | | | 11.4 | 1.225415 | 9.3 |
| 2020 | 10.998 | | | | | | 11.0 | 1.274027 | 8.6 |
| 2021 | 4.253 | | | | | | 4.3 | 1.332162 | 3.2 |
| 2022 | 2.121 | | | | | | 2.1 | 1.384191 | 1.5 |
| 2023 | 4.580 | | | | | | 4.6 | 1.419987 | 3.2 |
| 2024 | 3.264 | | | | | | 3.3 | 1.451163 | 2.2 |
| 2025 | 2.463 | | | | | | 2.5 | 1.481789 | 1.7 |
| 2026 | 2.266 | | | | | | 2.3 | 1.512906 | 1.5 |
| 2027 | 2.258 | | | | | | 2.3 | 1.544678 | 1.5 |
| 2028 | 2.322 | | | | | | 2.3 | 1.577116 | 1.5 |
| 2029 | 2.368 | | | | | | 2.4 | 1.610235 | 1.5 |
| 2030 | 2.461 | | | | | | 2.5 | 1.644050 | 1.5 |
| 2031 | 2.513 | | | | | | 2.5 | 1.678575 | 1.5 |
| 2032 | 1.851 | | | | | | 1.9 | 1.713825 | 1.1 |
| 2033 | 1.525 | | | | | | 1.5 | 1.749816 | 0.9 |
| 2034 | 1.557 | | | | | | 1.6 | 1.786562 | 0.9 |
| 2035 | 1.590 | | | | | | 1.6 | 1.824079 | 0.9 |
| 2036 | 1.624 | | | | | | 1.6 | 1.862385 | 0.9 |
| 2037 | 1.658 | | | | | | 1.7 | 1.901495 | 0.9 |
| 2038 | 1.692 | | | | | | 1.7 | 1.941427 | 0.9 |
| 2039 | 1.728 | | | | | | 1.7 | 1.982197 | 0.9 |
| 2040 | 1.764 | | | | | | 1.8 | 2.023823 | 0.9 |

Littoral Combat Ship Mission Modules

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 CY2010 (\$M) |
| 2041 | 1.801 | | | | | | 1.8 | 2.066323 | 0.9 |
| 2042 | 1.839 | | | | | | 1.8 | 2.109716 | 0.9 |
| 2043 | 1.878 | | | | | | 1.9 | 2.154020 | 0.9 |
| 2044 | 1.917 | | | | | | 1.9 | 2.199254 | 0.9 |
| 2045 | 1.958 | | | | | | 2.0 | 2.245439 | 0.9 |
| 2046 | 1.999 | | | | | | 2.0 | 2.292593 | 0.9 |
| 2047 | 2.041 | | | | | | 2.0 | 2.340737 | 0.9 |
| 2048 | 2.083 | | | | | | 2.1 | 2.389893 | 0.9 |
| 2049 | 2.127 | | | | | | 2.1 | 2.440080 | 0.9 |
| 2050 | 2.172 | | | | | | 2.2 | 2.491322 | 0.9 |

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Littoral Combat Ship Mission Modules

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 CY2010 (\$M) |
| Total | | 44.4 | 44.4 | - | 34.0 |
| 2004 | | | - | 0.912325 | - |
| 2005 | | | - | 0.938218 | - |
| 2006 | | | - | 0.963666 | - |
| 2007 | | | - | 0.983263 | - |
| 2008 | | | - | 1.000021 | - |
| 2009 | | | - | 1.013723 | - |
| 2010 | | | - | 1.039094 | - |
| 2011 | | | - | 1.062434 | - |
| 2012 | | | - | 1.078132 | - |
| 2013 | | | - | 1.093490 | - |
| 2014 | | | - | 1.109891 | - |
| 2015 | | | - | 1.141174 | - |
| 2016 | | 16.159 | 16.2 | 1.167770 | 13.8 |
| 2017 | | - | - | 1.197849 | - |
| 2018 | | - | - | 1.242303 | - |
| 2019 | | - | - | 1.290093 | - |
| 2020 | | - | - | 1.344569 | - |
| 2021 | | 19.910 | 19.9 | 1.391293 | 14.3 |
| 2022 | | 8.289 | 8.3 | 1.422584 | 5.8 |

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

Littoral Combat Ship Mission Modules

| 1319N - Research, Development, Test & Eval, Navy | | | | |
|--|----------|--|-------------------------------------|----------|
| fiscal year | LCS MM | LCS Mine Countermeasures Mission Package | LCS Surface Warfare Mission Package | Total |
| Total | 5 | - | - | 5 |
| Undistributed | | | | - |
| 2005 | 1 | | | 1 |
| 2006 | 1 | | | 1 |
| 2007 | | | | - |
| 2008 | 1 | | | 1 |
| 2009 | | | | - |
| 2010 | 1 | | | 1 |
| 2011 | | | | - |
| 2012 | | | | - |
| 2013 | | | | - |
| 2014 | | | | - |
| 2015 | | | | - |
| 2016 | 1 | | | 1 |
| 2017 | | | | - |

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

Littoral Combat Ship Mission Modules

| 1810N - Other Procurement, Navy | | | | |
|---------------------------------|-----------|--|-------------------------------------|-----------|
| fiscal year | LCS MM | LCS Mine Countermeasures Mission Package | LCS Surface Warfare Mission Package | Total |
| Total | 35 | - | - | 35 |
| Undistributed | | | | - |
| 2005 | | | | - |
| 2006 | | | | - |
| 2007 | | | | - |
| 2008 | | | | - |
| 2009 | | | | - |
| 2010 | 1 | | | 1 |
| 2011 | 1 | | | 1 |
| 2012 | 1 | | | 1 |
| 2013 | 2 | | | 2 |
| 2014 | 1 | | | 1 |
| 2015 | | | | - |
| 2016 | 2 | | | 2 |
| 2017 | 1 | | | 1 |
| 2018 | 1 | | | 1 |
| 2019 | | | | - |
| 2020 | 3 | | | 3 |
| 2021 | 1 | | | 1 |
| 2022 | 1 | | | 1 |
| 2023 | 2 | | | 2 |
| 2024 | 3 | | | 3 |
| 2025 | 1 | | | 1 |
| 2026 | 2 | | | 2 |
| 2027 | 1 | | | 1 |
| 2028 | 1 | | | 1 |
| 2029 | 1 | | | 1 |
| 2030 | 1 | | | 1 |
| 2031 | 1 | | | 1 |
| 2032 | 1 | | | 1 |
| 2033 | 1 | | | 1 |
| 2034 | 1 | | | 1 |
| 2035 | 1 | | | 1 |
| 2036 | 1 | | | 1 |
| 2037 | 1 | | | 1 |

Littoral Combat Ship Mission Modules

| 1810N - Other Procurement, Navy | | | | |
|--|---------------|---|--|--------------|
| fiscal year | LCS MM | LCS Mine Countermeasures Mission Package | LCS Surface Warfare Mission Package | Total |
| 2038 | 1 | | | 1 |

Nuclear Costs

Littoral Combat Ship Mission Modules

Program's Use of Department of Energy Resources

None

Operational Fielding Plan

Littoral Combat Ship Mission Modules

System: LCS MM

Fielding and Inventory Notes

None

LCS MM Fielding Plan and Inventory

| fiscal year | Store | Field | Expend/Loss | Decommission | Inventory |
|-------------|-------|-------|-------------|--------------|-----------|
| 2023 | | | | | 22 |
| 2024 | - | 3 | - | - | 25 |
| 2025 | - | 3 | - | - | 28 |
| 2026 | - | 3 | - | - | 31 |
| 2027 | - | 1 | - | - | 32 |
| 2028 | - | 2 | - | - | 34 |
| 2029 | - | 1 | - | - | 35 |

O&S Independent Cost Estimate

Littoral Combat Ship Mission Modules

Independent and Current Cost Estimate Comparison

| Category | CY2010 (\$M) | Independent Cost Estimate | Current Estimate 9/28/2018 | Variance with ICE (%) |
|-------------------------------|--------------|---------------------------|----------------------------|-----------------------|
| Unit-Level Manpower | | 1,732.1 | 1,732.1 | 0% |
| Unit Operations | | 143.8 | 143.8 | 0% |
| Maintenance | | 4,520.6 | 4,520.6 | 0% |
| Sustaining Support | | 603.3 | 603.3 | 0% |
| Continued System Improvements | | 3,170.2 | 3,170.2 | 0% |
| Other | | 918.0 | 918.0 | 0% |
| Total O&S | | 11,088.0 | 11,088.0 | 0% |

Independent Cost Estimate Source

Event: SAR
 Type: Independent Cost Estimate
 Approved by:

Current Cost Estimate Source

Type: Program Office Estimate
 Approved by: OSD Cost Assessment & Program Evaluation, September 28, 2018

Cost Estimate Variance Explanation

Cost Estimate provided by SEA05C as part of annual update for SAR

Annual Operating and Support Estimates by Cost Element**Littoral Combat Ship Mission Modules****System: LCS MM**

Source for TY-CY Conversion: SEA 05C PB24 Joint Inflation Calculator

| 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 CY2010 (\$M) |
| Total | 1,732.1 | 143.8 | 4,520.6 | 603.3 | 3,170.2 | 918.0 | 11,088.0 |
| 2008 | - | - | 8.049 | - | - | - | 8.0 |
| 2009 | - | - | 13.236 | - | - | - | 13.2 |
| 2010 | - | - | 10.112 | - | - | - | 10.1 |
| 2011 | - | - | 9.118 | - | - | - | 9.1 |
| 2012 | - | - | 19.128 | - | - | - | 19.1 |
| 2013 | - | - | 22.607 | - | - | - | 22.6 |
| 2014 | - | - | 83.739 | - | - | - | 83.7 |
| 2015 | - | - | 119.725 | - | 3.760 | - | 123.5 |
| 2016 | - | - | 148.341 | - | 1.786 | - | 150.1 |
| 2017 | - | - | 169.862 | - | 5.868 | - | 175.7 |
| 2018 | - | - | 195.796 | - | 11.776 | - | 207.6 |
| 2019 | - | - | 240.153 | - | 20.327 | - | 260.5 |
| 2020 | - | - | 273.489 | - | 45.388 | - | 318.9 |
| 2021 | - | - | 298.317 | - | 31.171 | - | 329.5 |
| 2022 | 122.161 | 3.777 | 64.709 | 25.400 | 37.945 | 38.122 | 292.1 |
| 2023 | 116.135 | 3.944 | 69.170 | 23.454 | 65.014 | 39.780 | 317.5 |
| 2024 | 95.415 | 4.112 | 72.063 | 24.552 | 75.949 | 29.687 | 301.8 |
| 2025 | 65.369 | 4.064 | 77.212 | 24.552 | 71.677 | 29.982 | 272.9 |
| 2026 | 65.369 | 4.800 | 83.128 | 24.575 | 65.289 | 37.680 | 280.8 |
| 2027 | 65.369 | 4.823 | 90.356 | 24.598 | 73.365 | 37.843 | 296.4 |
| 2028 | 65.369 | 4.845 | 95.160 | 24.598 | 76.341 | 37.924 | 304.2 |
| 2029 | 65.369 | 4.849 | 96.698 | 24.598 | 71.725 | 37.995 | 301.2 |
| 2030 | 65.369 | 5.392 | 100.944 | 24.598 | 68.373 | 37.995 | 302.7 |
| 2031 | 65.369 | 5.949 | 110.820 | 24.598 | 91.762 | 37.995 | 336.5 |
| 2032 | 65.369 | 6.091 | 120.700 | 24.598 | 133.721 | 37.995 | 388.5 |
| 2033 | 65.369 | 6.217 | 129.108 | 24.598 | 107.344 | 37.995 | 370.6 |
| 2034 | 66.381 | 6.336 | 134.056 | 24.598 | 160.109 | 38.115 | 429.6 |
| 2035 | 66.381 | 6.336 | 134.078 | 24.598 | 117.251 | 38.115 | 386.8 |
| 2036 | 66.381 | 6.336 | 133.977 | 24.598 | 155.750 | 38.115 | 425.2 |
| 2037 | 65.778 | 6.221 | 131.009 | 24.220 | 165.650 | 37.822 | 430.7 |
| 2038 | 65.176 | 6.094 | 128.474 | 23.905 | 166.269 | 37.529 | 427.4 |
| 2039 | 64.573 | 6.042 | 125.549 | 23.601 | 184.059 | 37.289 | 441.1 |
| 2040 | 64.001 | 5.951 | 120.332 | 23.149 | 127.917 | 36.996 | 378.3 |

System: LCS MM

Source for TY-CY Conversion: SEA 05C PB24 Joint Inflation Calculator

| 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 CY2010 (\$M) |
| 2041 | 64.001 | 5.825 | 120.332 | 23.149 | 188.432 | 36.996 | 438.7 |
| 2042 | 61.995 | 5.710 | 117.912 | 22.846 | 108.199 | 35.863 | 352.5 |
| 2043 | 55.423 | 4.813 | 112.915 | 22.394 | 183.288 | 32.548 | 411.4 |
| 2044 | 48.247 | 4.737 | 109.985 | 22.091 | 130.973 | 28.924 | 345.0 |
| 2045 | 43.028 | 4.697 | 107.481 | 17.703 | 163.627 | 26.097 | 362.6 |
| 2046 | 36.903 | 4.325 | 98.000 | 17.263 | 124.903 | 22.924 | 304.3 |
| 2047 | 29.454 | 4.325 | 97.539 | 14.505 | 83.498 | 18.806 | 248.1 |
| 2048 | 8.837 | 3.397 | 67.100 | - | 29.237 | 8.710 | 117.3 |
| 2049 | 3.535 | 3.025 | 60.078 | - | 22.461 | 2.130 | 91.2 |
| 2050 | - | 0.742 | - | - | - | - | 0.7 |