



LCS Mission Modules Program



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Program Manager
LCS Mission Modules (PMS 420)**



Mission Package Milestones



■ Surface Warfare Mission Package:

- ☐ All Mission Modules Certified for Deployment

■ Anti-Submarine Warfare Mission Package:

- ☐ Completed integration on FRE Variant (LCS 3)
- ☐ LCS testing continuing

■ Mine Countermeasures Mission Package

- ☐ Completing final unmanned systems integration & testing





Surface Warfare (SUW) Mission Package



■ SUW MP Supporting Fleet Deployments

- ❑ Four SUW MPs deployed to 4th Fleet AOR
- ❑ Three MPs deployed to 7th Fleet AOR (1 SUW, 2 Hybrid OAMCM/Maritime Security)
- ❑ Five Surface-to-Surface Missile Module (SSMM) units in production. 1st unit ready for deployment Q3 FY22
- ❑ Gun Mission Modules (GMMs) and Maritime Security Modules (MSMs) in sustainment and operationally deployed



■ Ongoing Advanced Experimentation Efforts

- ❑ Jaded Thunder (May 2022)
- ❑ Coalition Warfare Program



SUW MP deployed in numbers supporting Fleet Operations



Anti-Submarine Warfare (ASW) Mission Package



■ Progressing Through Integration and DT Events

- ☐ Testing hydrodynamic stability through the full range of operational requirements with active controls
- ☐ System suitability and reliability improvements in progress

■ Testing Continues in FY22

- ☐ Hydrodynamic testing
- ☐ System performance characterization against projected threats and environments on LCS

■ First Production Unit

- ☐ 1st production unit will incorporate improvements as a result of developmental testing





Mine Countermeasures (MCM) Mission Package



■ MCM MP with OAMCM Forward Deployed

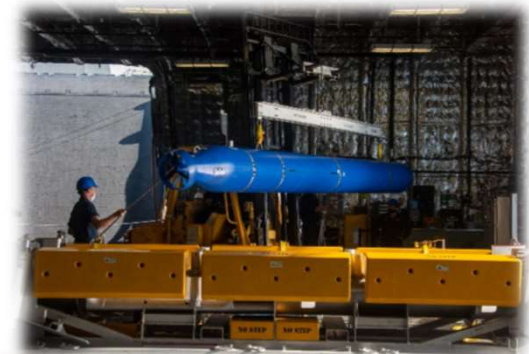
- ❑ Aviation MCM MMs certified for deployment on both LCS variants



■ Finishing Unmanned MM Integration on IND Variant

■ MCM MP Progressing Toward IOC

- ❑ MCM MP IOT&E FY22 on IND variant





MCM USV (Unmanned Influence Sweep System/Minehunt)



■ Completed UISS IOT&E June 21 - (LCS 14)

- ❑ MCM USV + Sweep (UISS) completed Shipboard IOT&E FY21
- ❑ UISS on track to achieve IOC FY22.

■ MCM USV Minehunt

- ❑ MCM USV Minehunt DT/OT- FY22

■ MCM USV / Payload Production

- ❑ MCM USV LRIP – Delivery FY22
- ❑ AQS-20C deliveries commence in FY23
- ❑ Payload Production—RFIs on the street- RFP release planned FY22



Completed Sweep Payload (UISS) IOTE

MCM USV in Low Rate Initial Production

Distribution A: Approved for Public Release; Distribution Unlimited



Knifefish



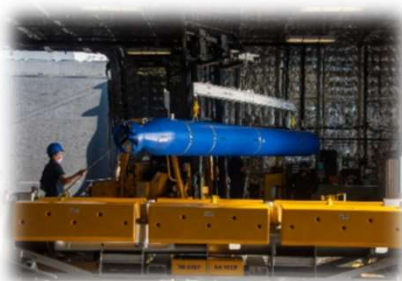
■ Knifefish in Low Rate Initial Production

- ☐ Two Block 0 Systems to support system suitability and MCM MP integration and testing through FY22
- ☐ Block 1 Retrofit contract will upgrade all five Block 0 systems
- ☐ Block 1 IOTE planned FY23 and production contract planned FY24



■ Knifefish Block Improvement Program

- ☐ Bolstering performance in deeper and complex bottom types to meet Fleet challenges

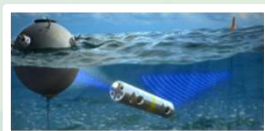




LCS MCM Mission Package UXS

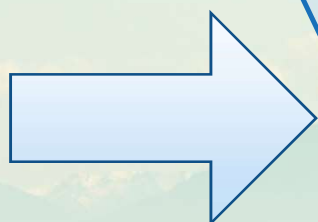


MINE NEUTRALIZATION



**Mine Neutralization
Payload Deployment
System**

**Barracuda
Neutralizer**



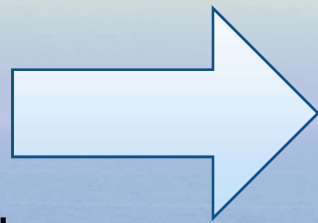
MINESWEEPING



MCM USV Craft



- Mine Sweep Payload Deployment System
- Magnetic sweep cable and Mk 104 acoustic generator

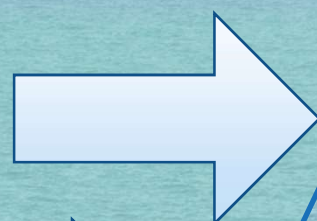


MINEHUNTING

**Minehunting
Payload
Deployment
System**



**AN/AQS-20C
Sonar**



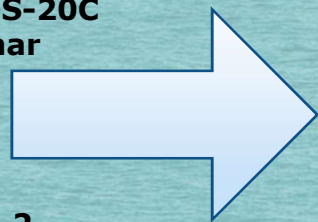
Knifefish UUV Block 0

- Bottom & Buried Mine Hunting



Knifefish UUV Block 1, 2

- Deeper, Improved sensors



**Littoral
Combat
Ship (LCS)**



**Vessel of
Opportunity
(VOO)**

MCM Mission Packages (24)



**24 Knifefish Systems
(48 UUVs)**



**Mission Package
Portable C2 System**



Summary



- ☐ Mission modules deliver critical combat capability to LCS
- ☐ MCM MMs are completing final integration testing
- ☐ ASW MM continuing to test to address hydro/reliability issues
- ☐ Aviation MCM Mission Modules certified for deployment on both variants
- ☐ All SUW Mission Modules certified for deployment
- ☐ LCS MMs are in production, fielding and deploying to the Fleet



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