

LCS Mission Modules Program





CAPT Gus Weekes Program Manager LCS Mission Modules (PMS 420)

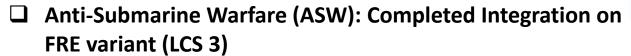




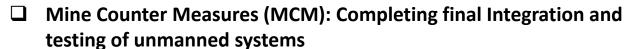
Mission Package Completed Milestones



- Surface Warfare (SUW): All Mission Modules (MM) certified for deployment
 - ☐ Deliveries complete for Gun MM and Maritime Security MM
 - ☐ SUW MP with Surface-to-Surface Mission Module (SSMM) deployed



- Demonstrated ability to track submarine Q1 FY21
- ☐ First production unit procured; deliver FY22



- ☐ All Aviation MCM (AMCM) Mission Modules certified for deployment
- ☐ Completed Unmanned Influence Sweep System (with USV) IOT&E
- ☐ Completed MCM MP C2 Integration events during shore based events





Surface Warfare (SUW) Mission Package

PEO USC

- **□** SUW MP supporting Fleet Deployments
 - ☐ SUW with SSMM completed a successful deployment on LCS 7 in FY19/20
 - ☐ Three SUW MPs currently deployed to 4th FLT AOR
- → Achieved SSMM IOC in Feb 2019
 - □ Surface-to-Surface Mission Module (SSMM) 90% successful engagement rate w/ over 100 live-fire shots in formal testing.
- □ (5) SSMM in production; deliveries commence in FY22







SUW MP deployed in numbers supporting Fleet Operations



Anti-Submarine Warfare (ASW) Mission Package



- Currently conducting integration and DT events
 - Successfully tracked submarine Q1 FY20
 - Currently testing hydrodynamics through full range of operational requirements
 - System suitability and reliability improvements
- □ DT and IOT&E planned Q1-Q3 FY22
- Plan to achieve ASW MP IOC in FY22





Provides a game-changing ASW capability not fielded on any other USN surface combatant



Mine Countermeasures (MCM) Mission Package



- ☐ MCM MP's Aviation MMs are currently deployed aboard LCS 16 and 18
- Successful MCM/Vessel of Opportunity (VOO) demo aboard ESB 4
 - ☐ Control of MCM USV with Mission Package Portable C2 Station (MPPCS)
 - ☐ Demonstrating Beyond LOS technologies
- MCM MP completing integration of final MCM Mission Modules on IND
 - Buried Minehunting Integration from IND and FRE
 - ☐ MCM USV Launch and Recovery completed on IND
- ☐ MCM MP IOC Q4 FY22













MCM MP on track to deliver IOC FY22



MCM USV (UISS/Minehunt)



- Completed UISS IOT&E June 21 USS Manchester (LCS 14)
 - MCM USV + Sweep (UISS) UNDEX and CYBER
 - ☐ UISS IOC- Q4 FY21
- ☐ MCM USV Minehunt
 - ☐ Contractor verification testing in progress
 - ☐ MCM USV Minehunt DT/OT- Q1FY22
- MCM USV/ Payload Production
 - ☐ MCM USV Low Rate Initial Production (4)- delivery Q3/Q4 FY22
 - ☐ MCM USV Production in source selection
 - AQS-20A being upgraded to AQS-20C- Deliveries commence Q1FY23
 - ☐ Payload Production—RFIs on the street- RFP release planned FY22











Completed Sweep Payload (UISS) IOT&E

MCM USV in Low Rate Initial Production



Knifefish



- Knifefish (KF) in Low Rate Initial Production (LRIP)
 - ☐ First KF Block 0 System delivered; KF Block 0 Systems will support MCM MP testing through FY22
 - ☐ KF Block 1 IOT&E planned Q1FY23
 - KF Block 1 Production contract planned FY23
- ☐ Knifefish Block improvement program is delivering improved performance in deeper and more complex bottom types to meet GPC requirements
 - ☐ Enhanced Automated Target Recognition algorithms
 - Partnering with Naval Research Laboratory











Knifefish Block 0 Low Rate Initial Production units being delivered/tested; Knifefish Block 1 provides increased capability to Fleet



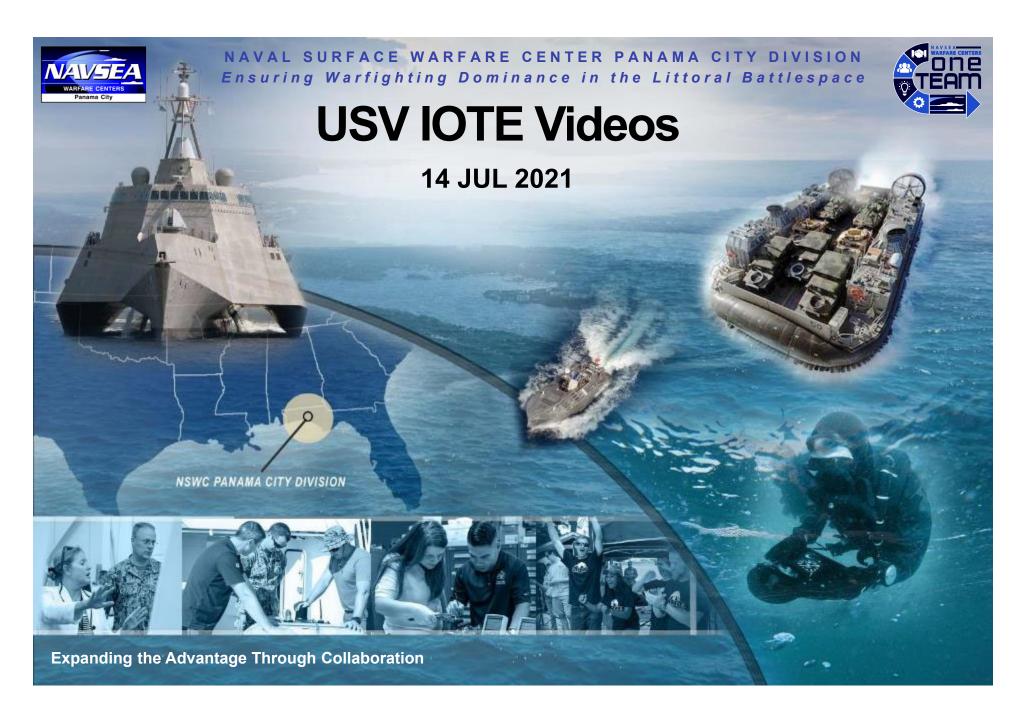
Summary



- Mission Packages deliver critical combat capability to LCS
- ☐ MCM MP and ASW MP are completing final integration and testing
- ☐ LCS MMs are in production, fielding and deploying to the Fleet



Distribution A: Approved for Public Release; Distribution Unlimited





Launch







Release







Capture







Recovery





